STATE OF CALIFORNIA
PETE WILSON, *Governor*

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION
2101 WEBSTER STREET, SUITE 500
OAKLAND, CA 94612
(510) 464-1255

August 24, 1992
File No. 1114.17(SIM)

Ms. Helen McKinley, Project Officer
U.S. Environmental Protection Agency, Region IX
Hazardous Waste Division (H-6-3)
75 Hawthorne Street
San Francisco, CA 94105

Dear Ms. ~~McKinley~~ Helen:

Subject: Quarterly Progress Report for the South Bay MSCA Fiscal Year 92 for the Quarter 1 April - 30 June 1992

Attached are four copies of the Quarterly Progress Report. The report covers the tasks in the approved Workplan amendments within the grant amendment award of June 5, 1992.

While the current Workplan amends and carries the work through September 1993, the June 1992 award is only through September 1992. An additional grant award is expected early in the federal fiscal year to complete the workplan.

As before, I would appreciate any constructive comments you may have to assure compliance of and/or improve the usefulness of the report. Please call me (510/464-0304) if you have any questions.

Sincerely,

Steve Morse
MSCA Program Manager

Attachment: Quarterly Progress Report (4)
cc: SRR, LPK, LKB, BHW, SAH, MDK, SAH, JET, MAB
S. Malos [SWRCB/DCWP (Underground Tanks)]
T. DiSanto, P. Sepeda, L. Vint [SWRCB/DAS]

QUARTERLY STATUS REPORT

APRIL - JUNE 1992

SOUTH BAY MULTI-SITE COOPERATIVE AGREEMENT (MSCA)

EPA GRANT NUMBER V-009403-02-9
(as of June 5, 1992)

State Water Resources Control Board

California Regional Water Quality Control Board
San Francisco Bay Region
South Bay Toxics Cleanup Division

August 24, 1992

QUARTERLY PROGRESS REPORT
SOUTH BAY MULTI-SITE COOPERATIVE AGREEMENT
April - June 1992

The goals of the MSCA for this phase are:

To accelerate cleanup of contaminated groundwater at Superfund sites in the South Bay.

To augment the RWQCB's existing programs to ensure that the EPA's requirements, as defined in the National Contingency Plan (NCP), are met for those NPL sites assigned to the RWQCB as lead agency.

* * *

The South Bay Multi-Site Cooperative Agreement (MSCA), Phase II, was awarded and accepted by the State Water Resources Control Board effective April 13, 1988. This progress report for this phase is submitted to satisfy the Special Conditions. This report covers the April - June 1992 quarter as amended in subsequent grant offers, the latest being awarded June 5, 1992 to extend the agreement to September 30, 1993.

The MSCA Grant provides funding for activities of the state (i.e. State Board and Regional Board) responsible for coordinating and enforcing groundwater cleanup program at Federal Superfund sites in the South Bay. The estimated expenditures, staff years, and accomplishments are compared to the work plans of January 28, 1988, March 9, 1989, February 13, 1990, January 1991, and January 22, 1992.

CONTENTS

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QUARTERLY PROGRESS REPORT
SOUTH BAY MULTI-SITE COOPERATIVE AGREEMENT
April - June 1992

II - SPECIAL CONDITIONS

Besides the tasks in the MSCA's Workplan, some of the grant's Special Conditions require the State Water Resources Control Board (SWRCB) and the Regional Water Quality Control Board (RWQCB) to perform certain activities. The Revised Special Conditions responded to here are part of the grant offer of June 5, 1992.

An amended Workplan for 1992-1993 for $2.35 million was submitted to and approved by the EPA with a partial award June 5, 1992.

Under the terms of the Special Conditions, the Board requested that EPA redirect funds between several of the sites to cover unanticipated costs not budgeted. EPA has agreed to the redirection and included the redirection in the 1992-1993 grant award.

Due to a change in State accounting to allocate all non-site specific charges monthly (to the appropriate NPL sites in proportion to staff activity), the grant workplan non-site specific tasks (A, B) and their accounting records can be misinterpreted. The important indication of budget for this quarter review is the *total.* Regional Board staff are still continuing to provide a better picture of site specific budgets and expenses for use in grant review.

An EPA funded CPA firm continues to review MSCA records to recommend cost allocation for non-site specific MSCA work. EPA initiated demands for cost-recovery for MSCA sites early March and received some initial payments in March and throughout the quarter. EPA and RP negotiations over costs continued as well as additional cost-recovery billing throughout the quarter.

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III - SUMMARY AND STATUS OF MSCA TASKS AND BUDGETS

This Section provides a summary as well as details where necessary on the quarterly progress and status of the MSCA tasks in the Workplan of January 1992 and as approved via the June 1992 grant award.

To accelerate the cleanup at the South Bay Federal Superfund sites the EPA assigned the responsibility along with the necessary augmented funding to the State and Regional Boards to accomplish oversight and regulation of the South Bay Superfund sites under Federal and State law, regulations and EPA Guidelines.

In most instances the toxics threat and risk at the sites is now either under interim control (awaiting long-term solutions) due to aggressive earlier Board regulation and requirements for initial and interim investigations, removals, and remediation or the Board and EPA have adopted and the Responsible Parties are (or have) constructed and/or implemented the long-term remediation project. The Regional Board's efforts are now focused primarily on the remaining sites requiring completion of any necessary investigations and development of cleanup alternatives (i.e. the RI/FS process) and a proposed cleanup plan (the RAP) for public review and comment (See Table, page III-4). After public review and comment, the Board will adopt the RAP in a Site Cleanup Order (i.e. CAO) as modified by public comment, staff recommendations and Board guidance. If EPA approves of the Board's actions and selects the same remedy (RAP), they will administratively adopt a Record of Decision (ROD). Close coordination with EPA is maintained during the process; there is no reason to believe that EPA would not choose the same remedy as the Board.

Significant Events and Activities During the Grant Quarter:

South Bay MSCA Superfund Site Cleanup Decisions (RI/FS/RAP): All the South Bay Superfund sites have accomplished significant amounts of work to meet Superfund final cleanup decision requirements. The tasks remaining are necessary to meet State and Federal Superfund (all of which the State requires as well) requirements to determine the best alternative considering protection of the public health and the environment as well as the maintenance (i.e. high quality groundwater) and protection of the resource (i.e. water conservation and reclamation).

Board Actions:
April: None
May: Amended HEXCEL(ADS) SCR
June: None

Other MSCA Events/Activities during the Quarter:

Quarterly Enforcement Meeting: Although EPA and the Board met frequently during the quarter, no joint quarterly meeting was held between DHS, EPA, and the Board covering the enforcement status of the South Bay toxics cleanup sites -- both Superfund and non-Superfund. This joint meeting is formalized in the updated South Bay Enforcement Agreement. At this time the primary area where the three agencies interface is the Stanford Industrial Park area in Palo Alto, Rhone-Poulenc in East Palo Alto where the DTSC was previously the lead agency, and at United Heckathorn and Liquid Gold sites in Richmond where the Board is a support agency.

South Bay Groundwater Task Force: Due to low attendance and interest, future meetings have been canceled unless a specific topic or site arises that warrants reconstitution of the task force. Contact with the usual participants of the Task Force is maintained through individual site-specific contacts.

Board staffing: During most of the quarter, the Board's staffing in support of the MSCA was satisfactory. Because of the attempt to reduce the amount of effort in the Site Management System, the absence of the Information System Technician on the future of the Site Management System will not significantly affect future work although the published SMS has not been updated since early this year. The Leave of Absence of the Division's Senior Engineering Geologist / Section Leader causes some impacts as the Division Chief attempts to cover her supervisory duties and responsibilities in her absence. State budget shortfalls should not affect the MSCA staffing, but will affect purchases.

1992-1993 MSCA Workplan: The Regional Board submitted the amended 1992-1993 MSCA Workplan in January; the State Board accepted and applied for the amended grant in March; and the EPA awarded the amended Grant in June.

EPA Cost-Recovery: In early March 1992, EPA began the process of cost-recovery for the MSCA

sites. The demands are for combined costs of the Board (through June 30, 1991) and EPA (through July 31, 1991). Before the end of March, several RPs had already paid, and most of the remaining billed sites paid either in full or partially during the quarter.

Status and Funding of MSCA Tasks:

The overall status of the Grant tasks is satisfactory, especially with the new grant supplemental award received June 5, 1992; however, the status of the individual tasks (and site budgets) varies (see the individual tasks following for detailed descriptions):

A. Program Management: Normal activities continue with assuring the final adoption of RAPs at several sites as well as efforts at Rhone-Poulenc to assure that tight time schedules would be met. Significant efforts were spent to support the 10-year Superfund site cleanup review conference as well as with EPA in supplementing documentation of the cost-recovery packages.

B. Site Management System: The last published quarterly report for October - December 91 was distributed late January. With the leave of absence of the Information System Technician from early April to September, the Regional Board's latest approved workplan has rescoped the SMS to be less IST intensive and still provide greater public access (via modem, fax, and limited paper copies).

D. Community Involvement: Up-to-date; see specific item. Considerable community involvement activities continue to be generated at the AMD/Signetics/TRW and National Semiconductor/AMD Arques sites concerning volatilization of contaminants through the soils into residences and school(s) above the off-site plume as well as the extension of the ground water pollutant plume northerly of Highway 101. The biggest community involvement efforts during the quarter concerned the Rhone-Poulenc site in East Palo Alto with the implementation of the Remedial Action for the Upland OU in the summer quarter. Work was also significant for the retrospective community conference for early May on Superfund Groundwater Cleanup and an update of the 1989 EPA brochure on "Status of Superfund Groundwater Cleanup in the South Bay".

E2. NPL Site Oversight: Currently, we are able to keep up with the staff work load although some schedules are still being fully defined (e.g. HP 640 Page Mill and HP 1501 Page Mill). The typical scenario finds that as the cleanup tasks in the RI/FS workplan become solidified and finalized that details formerly unknown or unresolved take on an importance not previously appreciated (e.g. HP sites). Some unforseen slippages in the current MSCA schedules have occurred and probably will occur again. State staff will do everything in their power to minimize slippage. Additionally, the utilization of Operable Units is being used (e.g. NSC/AMD Arques) where a firm decision can be made on a given unit *and* a final decision on the remainder of the site can not be made for a considerable time. A review of the site schedule (page III-4) indicates actual and probable slippage from the schedules updated earlier this year for the recent award and last quarter's report. Details on the slippage are covered later by site, but generally they can still be categorized into four categories:

1. Upon review of the PRP submitted RI/FS and proposed RAP, the report and recommendations are inadequate and require significant administrative changes to meet EPA guidance documents; these comments come from both RWQCB and EPA staff [e.g. National Semiconductor/Advanced Micro Devices (Arques)].

2. Finishing up the RI/FS and RAP, "holes" are found in the RI/FS and RAP that must be covered with further field work and/or investigations (e.g. Rhone-Poulenc's risk assessment).

3. New information comes to light (usually in the field, "one last well...") that requires radical changes to the RI/FS and RAP with their ensuing delays (e.g. the HP Palo Alto sites).

4. Agency and public comment require significant amendment of the FS/RAP (e.g. Rhone-Poulenc).

An additional factor that may delay RODs, but probably not the state RAPs is activity by the State Department of Health Services in the preparation of Health Assessments (HA) under contract for the Agency for Toxics Substances and Disease Registry (ATSDR) as required by CERCLA/ SARA. To date, it is still not clear what the difference between ATSDR/DHS'

Health Assessments and the Board's BPHE and Risk Assessments is or how they will be involved in RAP/ROD decision-making since the HA will not normally be available until after the Board adopts a RAP. To date, no ROD has been held up because of ATSDR's HA.

Mitigating these potential delays is the fact that the Board has required interim remediation, in almost all cases, the definition work has been mostly completed (exception, but nearing completion -- HP's 640 and 1501 Page Mill sites in Palo Alto), and the Board can implement enforcement quickly where needed. Staff is aware of slippages and is working to assure completion to the amended schedule as well as preventing further slippage. At this time no enforcement is planned.

Over expenditures shown on this task are primarily caused by several administrative problems:

- Within the task, CALSTARS reports utilized currently do not provide an appropriate breakout between indirect costs and contract costs.

- Within the task by site, over expenditures are caused by the implementation of specific site budgets where none existed before and unanticipated work or difficulty of work that could not be foreseen by the original budget. With the new award of June 1992, redirection should correct this problem (by task). For tracking purposes, the overall *total* task and grant budget must be utilized.

- The grant award was late due to delays in the submission and award; earlier over expenditures are now covered by the July 1990 and May 1991 award budgets and will also be reconciled with the June 1992 grant award budget redirections. No additional funding is requested at this time other than the approval of the amended workplan for 1992-1993.

- To facilitate cost-recovery, all non-site specific work (Tasks A, B, etc.) is allocated monthly to the MSCA sites in proportion to the site activity for the month. The real test of grant budget and spending at this time is to compare the *total* "bottom line" of the entire grant. State staff are attempting to provide a better picture of individual site budgets in future quarterly reports.

E3. EPA Coordination: This task has been eliminated in the January 1992 amended workplan with all such "EPA coordination" activities being charged to the site that the staff is assigned to regulate or support.

The table on page III-5 is a summary of the grant budget status of all the tasks and shows the approved budget and total estimated expenditures for staffing, expenses and contracts during the quarter and the life of the Cooperative Agreement (Phase II) since initial award April 13, 1988, including the July 90, May 91, and June 92 awards. In previous MSCA quarterly reports we have forecasted that there would be over expenditures on Tasks A, Program Management, and E.3., EPA Coordination. These over-expenditures are from greater than anticipated staff and contractor (i.e. IPA) time necessary for contract preparation for currently non-site specific consultant contracts as well as to comply with federal and state procurement requirements. The Regional Board Program Manager may request a redirection between tasks to cover this underestimate; no overall increase in total budget is foreseen due to these charges at this time. *It should be noted that the only valid cost data is shown on III-5 since the State Board accounting system (CALSTARS) has already distributed the non-site specific dollar charges to the specific sites in proportion to site activity. Personnel Years are shown appropriately, but not dollars spent or remaining on the other non-site specific tasks (A, B, some of D, and E.3.)*

Forecasted MSCA Tasks and Activities Next 3 - 6 Months:

--Significant activity is still expected as shown in the MSCA Schedule (see page III-4) to complete RI/FS (HP 1501), and proposed RAP H/P 1501), and conduct a Board Public Meeting (Rhone Poulenc Uplands OU RD/RA and Wetlands Investigation) and some informal Public Meetings near sites to receive comment on various phases of projects.
--Maintain time schedules in Community Relations Plans in coordination with overall schedule (especially Hexcel and Hewlett-Packard).
--Amend and extend where necessary MSCA contracts (Technical Assistance, Public Health Evaluation) and Interagency Agreement with DHS (Data Validation).

SOUTH BAY MSCA GRANT SCHEDULE REQUIREMENTS

(updated 8/15/92 by RWQCB; changes since last report shown w/#)

Site	RI/FS and RAP Completed and Available for Public Comment		Final RAP/ROD Adopted	
	mo/yr	FFY/Q	mo/yr	FFY/Q
1. Advanced Micro Devices - Arques	*RI/FS adopted; ROD signed; RD/RA underway*			
2. Advanced Micro Devices - Bldg 901/902	*RI/FS adopted; ROD signed; RD/RA underway*			
3. Advanced Micro Devices 915	*RI/FS adopted; ROD signed; RD/RA underway*			
4. Applied Materials				
Groundwater Operable Unit	*RI/FS, RAP adopted; ROD (groundwater) signed; RD/RA underway*			
Soils Operable Unit	7/92?	92/4?	9/92?	92/4?
5. CTS Printex	*RI/FS and RAP adopted; ROD signed; RD/RA underway*			
6. Fairchild, San Jose	*RI/FS and RAP adopted; ROD signed; RD/RA underway*			
7. Hewlett Packard, 1501 Page Mill	TBD (1/93?)	TBD (93/2?)	TBD(4/93?)	TBD(93/3?)
8. Hewlett Packard, 640 Page Mill				
COE Operable Unit	TBD(mid 93)	TBD(late 93)	TBD(late 93)	TBD(early 94)#
Operable Unit #2	N/A?	N/A?	N/A?	N/A?
9. Hexcel	9/92?	92/4?	11/92?	93/1?
10. Intel Magnetics / Micro Storage	*RI/FS adopted; ROD signed; RD/RA underway*			
11. Intel Santa Clara III	*RI/FS & RAP adopted; ROD signed; RD/RA underway*			
12. International Business Machines	*RI/FS and RAP adopted; ROD signed; RD/RA underway*			
13. Intersil / Siemens	*RI/FS and RAP adopted; ROD signed; RD/RA underway*			
14. National Semiconductor				
Operable Unit 1	*RI/FS adopted; ROD signed; RD/RA underway*			
Operable Unit 2	TBD (early 93)	TBD (early 93)	TBD (mid 93)	TBD (mid 93)
15. Rhone Poulenc/Sandoz Crop Prot Corp				
Uplands Operable Unit	*RI/FS adopted; ROD signed; RD/RA underway#*			
Wetlands Operable Unit	8/93#	93/4#	11/93#	94/1#
16. Signetics	*RI/FS adopted; ROD signed; RD/RA underway*			
17. Solvent Services	*RI/FS & RAP adopted; ROD signed; RD/RA underway*			
18. Spectra Physics	*RI/FS adopted; ROD signed; RD/RA underway*			
19. Synertek 1	*RI/FS & RAP adopted; ROD signed; RD/RA underway*			
20. Teledyne	*RI/FS adopted; ROD signed; RD/RA underway*			
21. TRW/FEI Microwave	*RI/FS adopted; ROD signed; RD/RA underway*			
22. Van Waters & Rogers	*RI/FS and RAP adopted; ROD signed; RD/RA underway*			

TBD=To Be Determined

Notes: Federal lead sites, for which RWQCB receives funding under MSCA for its support activities, have identical milestones, but are not included here since the RWQCB is not responsible for meeting those time schedules. The State-required RAPs are not adopted until the NBAR is completed; does not affect the Federal Superfund process, only state required Non-Binding Allocation of Responsibility (i.e. NBAR).

SUMMARY OF SOUTH BAY MULTI-SITE COOPERATIVE AGREEMENT (MSCA - PHASE II) TOTAL EXPENDITURES

AS OF END OF THE QUARTER APRIL - JUNE 1992

(expenditures on State accounting reports as of 06/30/92 with contracts & equipment expenditures estimated)

TASK TITLE/SITE	PROG MGMT	SMS	EPA COORD	COM INV	TOTAL NON-SITE	NPL SITE TOTALS	GRAND TOTAL MSCA
PCA / TASK CODE	72901	72902	72903	3222/73XX		72XXX	
EPA NPL SITE #	N/A	N/A	N/A	N/A			
SALARY & WAGES:	338,925	71,367	61,543	4,889	476,724	1,083,617	1,560,341
SUB-TOTAL SAL & WGS	338,925	71,367	61,543	4,889	476,724	1,083,617	1,560,341
SALARY BUDGET	331,478	93,685	103,322	63,172	591,657	1,180,761	1,772,418
REMAINING BUDGET	(7,447)	22,318	41,779	58,283	114,933	97,144	212,077
BENEFITS:	101,676	21,412	18,764	1,323	143,175	317,289	460,464
SUB-TOTAL BENEFITS	101,676	21,412	18,764	1,323	143,175	317,289	460,464
BENEFITS BUDGET	99,444	28,105	31,387	19,153	178,089	354,227	532,316
REMAINING BUDGET	(2,232)	6,693	12,623	17,830	34,914	36,938	71,852
INDIRECT COSTS:							
EXP/OBLIG/ENCUM	(322,009)	(27,245)	(9,098)	47,863	(310,489)	2,274,152	1,963,663
SUB-TOTAL INDIRECT	(322,009)	(27,245)	(9,098)	47,863	(310,489)	2,274,152	1,963,663
INDIRECT BUDGET	342,583	94,364	105,324	228,920	771,191	1,238,363	2,009,554
REMAINING BUDGET	664,592	121,609	114,422	181,057	1,081,680	(1,035,789)	45,891
CONSULTANTS:							
CSDHS - DATA VAL					0	57,294	57,294
BASELN PUB HEALTH					0	328,171	328,171
TECHNICAL ASSIST					0	170,263	170,263
PRP SEARCH					0	29,530	29,530
LABORATORY SVCS					0	25,830	25,830
IPA(S) INC SPECIAL EXPENSES	11,332		5,407	405,951	422,690		422,690
SUB-TOTAL CONTRACT	11,332	0	5,407	405,951	422,690	611,088	1,033,778
CONTRACT BUDGET:	0	0	21,742	487,867	509,609	1,479,323	1,988,932
REMAINING BUDGET	(11,332)	0	16,335	81,916	86,919	868,235	955,154
EQUIPMENT:	4,819			5,478		7,971	
EXPEND/OBLIG/ENCUM	4,819	0		5,478	10,297	7,971	18,268
SUB-TOTAL EQUIPMENT	4819	0		5,478	10,297	7,971	18,268
EQUIPMENT BUDGET	6,350	3,000		11,445	20,795	26,100	46,895
REMAINING BUDGET	1,531	3,000		5,967	10,498	18,129	28,627
GRAND TOTAL EXP/ENC	134,743	65,534	76,616	465,504	742,397	4,294,117	5,036,514
GRAND TOTAL BUDGET	779,855	219,154	261,775	810,557	2,071,341	4,061,567	6,132,908
GRAND TOTAL REMAIN	645,112	153,620	185,159	345,053	1,328,944	(232,550)	1,096,394
% EXPND: BUDGET	17	30	29	57	36	106	82
PYs EXPENDED	7.15	3.17	2.05	0.29	12.65	31.35	43.99
PYs BUDGETED	8.56	4.62	3.43	3.48	20.09	33.91	54.00
REMAIN PYs	1.42	1.45	1.38	3.20	7.45	2.57	10.01
% EXPND: BUDGET PYs	83	69	60	8	63	92	81

8/5/92 - APR - JUN 92 QTR RPT

PROGRAM ELEMENT A: PROGRAM MANAGEMENT

The RWQCB is responsible for continued coordination and implementation of the South Bay MSCA Program. These activities include, but are not limited to, the following:

- o *Maintaining the direction, scope, and quality of the South Bay Program*
- o *Planning and oversight of the overall program schedule and budget*
- o *Interagency coordination*
- o *Staffing requirements and recruitment*
- o *Supervision of Community Involvement*
- o *Program analysis and development*
- o *Supervision of procurement*

Product

The products for Task A are the successful completion of all the tasks identified and funded under this phase of the South Bay MSCA. As stated in previous quarterly status reports, an adjustment of funds and PYs from contract dollars in Task E2. to this task (and to Task E3. -- EPA Coordination) may be necessary since charging all of these consultant procurement activities to a specific site is difficult to determine for this work at this time; a specific distribution among all the NPL sites will be made at a later date as the services of the consultants are utilized.

Additionally, most site-file work will be initially charged against this task with allocation among the sites made later depending upon the actual work necessary to establish and maintain individual site-specific cost files.

Within the overall program management, the most significant program management activities during this period involved finalizing the MSCA Workplan for April 92-September 93; the coordination/management necessary to meet MSCA time schedules, especially Rhone-Poulenc; the support as necessary for EPA's cost-recovery; and supervision and assistance in the 10-year retrospective conference May 6 of "Ground Water Cleanup in the South Bay";, and day to day supervision and management of MSCA tasks.

State Budgeted Activities

Task A involves supervising and implementing specific tasks (i.e. contracts) included in the MSCA. There is no existing state-funded budget provided for this activity.

Costs

The expenditures for the quarter as well as the grant period through 30 June 1992 are detailed and presented in Table III-A. Estimated expenditures beyond the task budget are for contract costs due to the use of an IPA and as well as additional state staffing to work on procuring contracts under the MSCAs Task E.2. and the establishment of site cost files. Redirection of contract funds from Task E.2. and others (to be eventually distributed by NPL site) to this task is necessary. Note the costs shown already accommodate the distribution of this tasks costs to the site specific accounts. See the Table of page III-5 for overall grant budget status.

TABLE III - A

COST ESTIMATE FOR TASK A - PROGRAM MANAGEMENT
ESTIMATED EXPENDITURES VS. APPROVED BUDGET AND STAFF - PHASE IIA GRANT 13 APRIL 88 - 30 JUNE 1992

	APPROVED BUDGET APRIL 1988 - SEP 1992		ESTIMATED EXPENSES THIS QUARTER		TOTAL EXPENDITURES AS OF 30 JUNE 1992		ESTIMATED REMAINING CURRENT GRANT	
Personnel	Est. Staff Years	Est. Cost	Est. Staff Years	Est. Cost	Staff Years	Expended	Staff Years	Funds
Supervising WRCE	3.03							
Senior WRCE/Geologist	0.98							
Assoc WRCE/Geologist	1.23							
Accountant I	1.10							
Staff Services Analyst	1.13							
Information Services Technician	0.10							
Office Technician	0.05							
Office Asst II	0.63							
Temporary Help	0.31							
TOTAL	8.56 SY	$331,478	0.30	$17,854	7.15 SY	$338,925	1.41	($7,447)
FRINGE BENEFITS		$99,444		$5,356		$101,676		($2,232)
INDIRECT COSTS		$342,583		$47,572		($322,009)		$664,592
EQUIPMENT		$6,350		$2,173		$4,819		$1,531
CONTRACTS								
		$0		$0		$11,332		($11,332)
		$0		$0		$0		$0
Total Contracts:		$0		$0		$11,332		($11,332)
TOTAL ESTIMATED RWQCB STAFFING AND COST	8.56 SY	$779,855	0.30 SY	$72,955	7.15 SY	$134,743	1.41 SY	$645,112
			3%	9%	84%	17%	16%	83%

PROGRAM ELEMENT B: SITE MANAGEMENT SYSTEM

Task Description

Under the earlier and current MSCA agreements the RWQCB implemented a computerized system to track RI (site remedial investigation), FS (feasibility studies / alternatives evaluation), and the implementation of remedial action activities for use of the RWQCB, CALEPA-DTSC and EPA management personnel for use in site enforcement and task tracking.

Additionally, as part of the community involvement program the SMS is currently distributed to 15 municipal agency representatives, 9 libraries, 7 state and federal agency representatives, 2 environmental groups and a manufacturers group, as well as sold (for reproduction costs) to those desiring it (primarily consultants).

Products

No regular quarterly report was produced this quarter because of the temporary loss of staff to produce the SMS. The Board is reconsidering the future of the SMS, at least in its present form. The 1992-93 workplan supports a significantly reduced SMS effort, at least for the "paper" portion. Regional Board may consider implementing this "new" SMS earlier than originally considered, but this still depends on staffing and equipment.

State Budgeted Activities

There is no existing State-funded budget or activities for the Site Management System.

Cost

A detailed breakdown on expenditures for Task B is presented in Table III-B. Note the costs shown already accommodate the distribution of this tasks costs to the site specific accounts. See the Table of page III-5 for overall grant budget status. No costs this quarter due to specific staff shortage and awaiting approval of grant and revised SMS task.

TABLE III - B

COST ESTIMATE FOR TASK B - SITE MANAGEMENT SYSTEM
ESTIMATED EXPENDITURES VS. APPROVED BUDGET AND STAFF - PHASE IIA GRANT 13 APRIL 88 - 30 JUNE 1992

	APPROVED BUDGET APRIL 1988 - SEP 1992		ESTIMATED EXPENSES THIS QUARTER		TOTAL EXPENDITURES AS OF 30 JUNE 1992		ESTIMATED REMAINING CURRENT GRANT	
Personnel	Est. Staff Years	Est. Cost	Est. Staff Years	Est. Cost	Staff Years	Expended	Staff Years	Funds
Supervising WRCE	0.00							
Associate WRCE/Geologist	0.10							
WRCE/Geologist	0.25							
Staff Services Analyst	0.25							
Information Services Technician	2.98							
Office Asst II	0.64							
Temporary Help	0.40							
TOTAL	4.62 SY	$93,685	0.00 SY	$0	3.17 SY	$71,367	1.45	$22,318
FRINGE BENEFITS		$28,103		$0		$21,412		$6,691
INDIRECT COSTS		$94,364		$0		($27,245)		$121,609
EQUIPMENT *(See Workplan for details)*		$3,000		$0		$0		$3,000
CONTRACTS								
		$0		$0		$0		$0
		$0		$0		$0		$0
Total Contracts:		$0		$0		$0		$0
TOTAL ESTIMATED RWQCB STAFFING AND COST	4.62 SY	$219,152	0.00 SY	$0	3.17 SY	$65,534	1.45 SY	$153,618
			0%	0%	69%	30%	31%	70%

8/13/92: APR - JUN 92 QTR RPT

PROGRAM ELEMENT D: COMMUNITY INVOLVEMENT

Task Description and Objectives

The main objectives of community involvement activities performed under the MSCA are:

Provide the general public with information on ground water systems, water supply sources, water quality, hazardous waste regulatory processes, and scope, progress and findings of remedial response activities.

Provide sufficient background information about technical and environmental issues to help the public understand and assess remedial actions.

Provide information, especially technical findings, in a form understandable to the general public.

Provide elected officials and the media with timely detailed information at key points throughout program activities.

Use the media as a major means of disseminating information to the general public.

Establish a two-way information exchange with environmental, public interest, and other concerned groups throughout the remedial response program.

Provide the means for all interested individuals to express concerns and make inquiries throughout project activities. (the opportunity for two-way communication is particularly important because of the length and complexity of the project).

Use the Groundwater Task Force, for overall coordination and review of community involvement efforts.

Create an interagency community involvement team to further coordinate the flow of information from agencies to the public.

Monitor public concerns and information needs

Modify the community involvement plan(s) to respond to changes in community attitudes and needs.

Community involvement activities conducted under the MSCA function independently, but coordinated with, EPA's area wide community involvement strategy as well as DHS's site community involvement programs. Under this approach, EPA assumes the lead role in coordinating area-wide community involvement activities in the South Bay. Specifically, the RWQCB will be responsible for providing information and directing community involvement activities for RWQCB-lead sites.

Products

The following activities were completed during the Quarter, primarily utilizing IPA staffing with student assistance:

1. A presentation on South Bay Superfund Sites was made to the Sunnyvale Chamber of Commerce "Leadership Sunnyvale" training course.

2. A newspaper advertisement was prepared for the Peninsula Times Tribune Environmental Edition. The advertisement included a map and list of both federal and state superfund sites. Names of agency contacts at the federal EPA, Cal EPA and the Regional Board were also provided.

3. A Media advisory and press release for the South Bay Groundwater Conference were prepared in cooperation with conference cosponsors.

4. A conference on Ten Years of Groundwater Investigation and Cleanup in the South Bay was held in the Santa Clara County Supervisors Chambers on Wednesday May 6, 1992.

Task D - Community Involvement (cont.)

5. A presentation on the Stanford Research Park groundwater cleanup sites was made to the Palo Alto Hazardous Materials Coordinating Committee on Thursday May 21, 1992.

6. Fact Sheet #5 on the AMD 901/902, Signetics, TRW Microwave site was prepared and distributed. This fact sheet focused on actions taken under the final cleanup plan approved in July, 1991.

7. A draft of Fact sheet #4 on the National Semiconductor, AMD Arques Avenue site was prepared and distributed for comment. This fact sheet also focused on actions taken in compliance with the final cleanup plan approved for Operable Unit #1 in September, 1991.

8. The Community Relations Officer participated in the federal EPA Public Comment Meeting on the JASCO Superfund site held on Wednesday June 24, 1992 in Mountain View.

9. A presentation was made to the Lakewood Village neighborhood Association on recent investigation and cleanup activities at both the AMD 901/902, Signetics, TRW Microwave; and National Semiconductor, AMD Arques Avenue sites on Thursday June 25, 1992.

Future Activities

Future activities are currently scheduled to meet the MSCA Special Conditions time line (as revised) requirements. Although the IPA staff was reduced late April with the return of an IPA to EPA, current IPA staffing better matches the forecasted Community Involvement needs. Backup as needed will be provided by Board staff and this may require changing some contract funds to personal services funds at a later date.

Costs

Work on this MSCA task is primarily by contract IPAs with very limited state employee participation. This task accommodates the budget necessary for site-specific NPL Community Involvement programs above and beyond technical (i. e. engineer/geologist) assistance which is already budgeted within the NPL Site Oversight task. A detailed expenditure breakdown for Task D is presented in Table III-D on page III-12. Note the costs shown already accommodate the distribution of this tasks costs to the site specific accounts. See the Table of page III-5 for overall grant budget status.

TABLE III - D

COST ESTIMATE FOR TASK D - COMMUNITY INVOLVEMENT
ESTIMATED EXPENDITURES VS. APPROVED BUDGET AND STAFF - PHASE IIA GRANT 13 APRIL 1988 - 30 JUNE 1992

	APPROVED BUDGET APRIL 1988 - SEP 1992		ESTIMATED EXPENSES THIS QUARTER		TOTAL EXPENDITURES AS OF 30 JUNE 1992		ESTIMATED REMAINING CURRENT GRANT	
Personnel	Est. Staff Years	Est. Cost	Est. Staff Years	Est. Cost	Staff Years	Expended	Staff Years	Funds
Supervising WRCE	0.00							
Senior WRCE/Geologist	0.00							
WRCE/Geologist	0.00							
Staff Services Analyst	0.25							
Information Services Technician	0.60							
Office Technician	0.03							
Office Asst II	0.75							
Temporary Help	1.85							
TOTAL	3.48 SY	$63,172	0.00 SY	$0	0.29 SY	$4,889	3.19	$58,283
FRINGE BENEFITS		$19,153		$0		$1,323		$17,830
INDIRECT COSTS		$228,920		($2)		$47,863		$181,057
EQUIPMENT (See Workplan for details)		$11,445		$0		$5,478		$5,967
CONTRACTS								
IPA --		$454,417	**	13,165		$405,951		$48,466
SPECIAL EXPENSES		$33,450		$0		$0		$33,450
Total Contracts:		$487,867		$13,165		$405,951		$81,916
TOTAL ESTIMATED RWQCB STAFFING AND COST	3.5 SY	$810,557	0.00 SY	$13,163	0.29 SY	$465,504	3.19 SY	$345,053
			0%	2%	8%	57%	92%	43%

**Not reflected on the 06/30/92 CALSTARS Report

PROGRAM ELEMENT E: TIER I ACTIVITIES

Tier I activities are those activities that occur at specific sites in the South Bay.

TASK E1.*	IDENTIFICATION OF NEW SITES	TASK E2.	RWQCB OVERSIGHT OF NPL PRP ACTIVITIES
TASK E1a.*	SCREENING OF NEW SITES IN ORDER TO CONDUCT PAs ON MOST SENSITIVE SITES		
TASK E1b.*	OVERSIGHT OF PRP SI		

*Note: These tasks were not requested for funding in this Phase; they may be considered at a later time if conditions changes.

Regional Board activities in this task cover the RI/FS oversight and/or regulation underway at the 31 South Bay MSCA Superfund sites (32 companies/agencies either final and proposed including Hexcel in the Livermore Valley and Liquid Gold and United Heckathorn in Richmond) for which the Board as a regulatory agency has either the current lead (22) or the supporting agency role (9). The current Agency-Lead and NPL Status as of this report are covered below.

EPA Lead Superfund Sites:

*1. Fairchild Semiconductor Corp., 464 Ellis St., Mountain View
*2. Intel Corp., 365 E. Middlefield Rd., Mountain View
3. Jasco Chemical Company, 1710 Villa St., Mountain View
4. Lorentz Barrel and Drum, 1515 S. 10th St., San Jose
5. Moffett Naval Air Station, Sunnyvale
*6. Raytheon Company, 350 Ellis St., Mountain View
7. United Heckathorn, Richmond
8. Westinghouse Electric Corporation, 401 E. Hendy Ave., Sunnyvale

RWQCB Lead Superfund Sites:

*1. Advanced Micro Devices, 901 Thompson Pl, Bldg.901, Sunnyvale
2. Advanced Micro Devices, Bldg. 915., 915 Deguigne Dr., Sunnyvale
*3. AMD-Arques, (formerly Monolithic Memories, Inc.), 1165 East Arques Ave., Sunnyvale
4. Applied Materials, 3050 Bowers Avenue, Santa Clara
5. CTS Printex, Mountain View
6. Fairchild Camera and Instrument Corp., Bernal Road, San Jose
7. Hewlett-Packard, 640 Page Mill Rd., Palo Alto
8. Hewlett-Packard, 1501 Page Mill Rd., Palo Alto
9. Hexcel, Livermore
10. Intel Facility III, 2880 Northwestern Parkway, Santa Clara
11. Intel Magnetics, 3000 Oakmead Village Dr., Santa Clara
12. International Business Machines, Cottle Road, San Jose
*13. Intersil, Inc., and Siemens Components, Inc., Cupertino
*14. National Semiconductor, 2900 Semiconductor Dr., Santa Clara
15. Rhone-Poulenc/Sandoz, 1990 Bay Road, East Palo Alto
*16. Signetics, 811 E. Arques, Sunnyvale
17. Solvent Services, Berreyessa Road, San Jose
*18. Spectra-Physics, Inc., 1250 West Middlefield Road, Mountain View
19. Synertek #1, Santa Clara
*20. Teledyne Semiconductor, 1300 Terra Bella Ave., Mountain View
*21. TRW Inc., 825 Stewart Pl., Sunnyvale
22. Van Waters & Rogers, Inc., 2256 Junction Ave., San Jose

* above sites will be treated as part of a combined site, at least for off-site work.

Cal/EPA-DTSC Lead Superfund Sites:

1. Liquid Gold, Richmond

EPA NPL Modifications (RCRA "drop" sites):

EPA's proposed rule-making in June 1988, (NPL Update #7) recommended that 6 NPL sites be deleted from the NPL since they are RCRA sites. Two other RCRA sites were proposed to be retained on the NPL. RWQCB officially commented to EPA-HQ on this proposal to delete high-priority RCRA sites by questioning the timeliness of the RCRA regulation update, future MSCA funding for these CERCLA/RCRA sites, and the lack of Technical Assistance Grants to citizen groups for RCRA (only) sites. EPA-IX has stated that the RCRA sites (proposed deleted and those remaining) will be treated as NPL sites to assure attention to cleanup appropriate to their NCP HRS scoring.

On October 4, 1989, EPA announced its final rule on the dropping of some of the NPL sites that are also RCRA sites. Under this rule, the following sites have been dropped from the NPL:

Hewlett-Packard, 1501 Page Mill Road
IBM, San Jose
Rhone Poulenc/Sandoz, East Palo Alto
Signetics, Sunnyvale
Van Waters and Rogers, San Jose

EPA (and the Board), per policy, continue to treat the RCRA "drop" sites the same as NPL sites in terms of requirements, tasks, and cleanup.

Products during Reporting Period:

Regional Board actions / Orders affecting the South Bay MSCA:

April: None
May: Amended HEXCEL(ADS) SCR
June: None

South Bay MSCA Superfund Site Cleanup Decisions (Remedial Investigations/Feasibility Studies/Remedial Action Plan): All the South Bay Superfund sites have performed significant amounts of work to meet Superfund final cleanup decision requirements. The tasks remaining are necessary to meet State and Federal Superfund. (almost all of which the State requires as well) requirements to determine the best alternative cleanup plan considering protection of public health and the environment as well as the maintenance (i.e. high quality groundwater) and protection of the resource (i.e. water conservation and reclamation).

Board staff conducted the following tasks as detailed in the EPA OSWER Memorandum dated October 1,. 1986, entitled, "CERCLA Funding of Oversight of Potentially Responsible Parties by States at National Priority List Sites. "

Review Tasks (all sites):
--Reviewed and commented on scope of work and work plans (all work plans requested and approved as of August 1990; updating due to operable units still may be necessary)
--Reviewed and commented on updates to. Safety Plans Reviewed and Commented on drafts of portions of RI reports (all)
--Reviewed/discussed FS objectives
--Completed PRP reports (all)
--Organized and participated in technical meetings on the RI/FS with PRPs, PRP contractors, and/or EPA. (all)
--Provided Technical Support to the Community Relations Task for:
Briefing of local and state officials
Prepared fact sheets and press releases

Field Related Tasks:
--On-site presence/inspection as necessary (all)

In addition, at RWQCB lead sites the following tasks were in progress by RWQCB staff or contracted by the RWQCB:

--Data Validation (all by IAG with DHS)
--Public Health Baseline Evaluation
(all work other than by PRP by contract award to. ICF/Clement for both BPHE, BPHE review, and RI/FS review)
--Maintenance of the Administrative Record
(primary use of PRPs for initial preparation)
--Continue Implementation of Cost Recovery
(all)

For those sites where the RWQCB is the Support Agency, staff provided support in the tasks described above to the extent necessary but not to exceed the staffing levels previously approved. (MEW, Lorentz, United Heckathorn, Westinghouse, JASCO, Liquid Gold)

For those sites under Regional Board lead, the IBM, Fairchild San Jose, Applied Materials (groundwater Operable Unit), Intel SCIII, Intersil/Siemens, Solvent Services, AMD 901/902, AMD 915, AMD Arques, CTS Printex, National Semiconductor OU#1, Microstorage/Intel Magnetics, Signetics, Rhone-Poulenc/Sandoz (Uplands OU), TRW/FEI Microwave, Teledyne, Spectra-Physics, Synertek #1, Van Waters & Rogers, sites have completed the RI/FS and RAP and a ROD has been signed in this MSCA grant phase (See Table, Page III-4).

Costs and Budgets:. With the addition of the June 1992 grant award and the proposed redirection among sites, no over-expenditures for the grant are forecast at this time.

The following is a description of the MSCA funded staff work and the current status at each of the MSCA Superfund sites.

REGIONAL BOARD LEAD SUPERFUND SITES:

ADVANCED MICRO DEVICES 901-902, SIGNETICS, TRW (FEI) MICROWAVE (THE COMPANIES)

ACTIVITIES: APRIL THROUGH JUNE 1992

Field activities were completed for quarterly monitoring of all four (i.e., three companies plus one combined off-site) operable units in early April. Operation of extraction and treatment systems for all four operable units continued throughout the quarter, with minimal interruption. All treatment systems were in compliance with respective NPDES permit requirements.

Deed restrictions for the AMD, Signetics and TRW operable units were submitted in May and June. All deed restrictions have been reviewed, with comments provided to the potentially responsible parties (PRP's).

AMD OPERABLE UNIT.

Groundwater elevations for the B water-bearing zones continued to show a rebound from the drought with maximum increases in water levels of six feet as compared to the previous quarter. This trend is not observed in the A-zone monitor wells, since most remain dry. The six well extraction system pumped an estimated 20 gpm during the second quarter of 1992. As expected, the majority of this water was extracted from the B1 and B2 water-bearing zones. Based on the low water levels in the A aquifer, staff has continued discussions with AMD regarding the possibility of beginning vapor extraction in this zone. No notable changes in VOC concentration or distribution were noted in results from this quarter. Samples from selected wells were analyzed for inorganics. No inorganics were detected above applicable drinking water standards.

A summary of contaminant removal and extraction system operation through the first quarter was included in the report for the second quarter 1992. The groundwater system extracted and treated 2,728,100 gallons of water during the first quarter of 1992. Based on average contaminant concentrations, the system removed about 95 pounds of VOC's during the first quarter. All remedial actions at the site, including soil excavations, have resulted in the estimated removal of 406 pounds of VOC's since 1984. The high removal rate for the first quarter is the result of an increase in the concentration of 1,1-DCE in the influent water to the treatment system.

It has been determined that the soil from the AMD 901 excavation will be transported out of state for incineration and disposal.

SIGNETICS OPERABLE UNIT

Field activities for the second quarter groundwater monitoring report were completed in early April 1992. Signetics was considering re-injection of some extracted groundwater. Due to concerns regarding cost and control of the re-injected water, Signetics does not plan to pursue re-injection further at this time.

TRW OPERABLE UNIT

Field activities for the second quarter groundwater monitoring report were completed in April 1992 and the report will be submitted in July 1992. The treatment system operated throughout the second quarter. Additional modifications to the control system were completed in May 1992. A proposal for a reduced sampling schedule was submitted in May. This proposal was rejected by Board staff because the it did not include sufficient detail on the selection process for wells that would have a reduced sampling schedule. A revised proposal, including additional detail, was submitted in June 1992.

OFFSITE OPERABLE UNIT

The additional CPT/Hydropunch data collected from the area north of Highway 101 was completed in April 1992, and the report was submitted in June 1992. This additional phase of investigation has confirmed that the groundwater contaminant plume in this area is restricted vertically to the B1 and B2 water-bearing zones. Laterally, the plume is restricted to an area of less than a city block. The additional data does

not confirm the existence of a connection to the plume south of Highway 101. However, the PRP's are proceeding with plans for groundwater remediation in this area, should it be required.

Five groundwater monitor wells were installed in the offsite area, north of Highway 101, in May. These wells are designed to monitor the movement of the groundwater contaminant plume that was confirmed by the CPT/Hydropunch investigation. Two wells installed at the location of the Hydropunch sample were designed to serve as extraction wells should that be necessary.

REGULATORY EVENTS: APRIL THROUGH JUNE 1992

None

PROJECTED EVENTS: JULY THROUGH DECEMBER 1992

A final report on the installation of all the wells installed in the offsite operable unit during the first and second quarters will be submitted in July 1992. Quarterly progress reports will be submitted for each operable unit throughout 1992. A proposal for vapor extraction testing at the AMD 901 facility is anticipated late summer 1992. Along with continued monitoring of groundwater, soil flux samples will be collected in July. Final deed restrictions for the three onsite operable units will be recorded within the third quarter. Staff will complete a draft interim completion report for this site and submit it to EPA for review and completion in July 1992.

AMD and Signetics will submit revised sampling plans in July. The revised sampling schedule for TRW will be finalized in July 1992.

Currently, the California Department of Health Services, Environmental Epidemiology and Toxicology Program is planning an advisory group meeting for August 1, 1992 and a public meeting for August 12 1992. These meetings, coordinated with Board staff, are planned to discuss the results of the indoor air sampling at the San Miguel School and the ATSDR health assessments completed by the California Department of Health Services, Environmental Epidemiology and Toxicology Program.

UNRESOLVED ISSUES:

The law suit filed by residents of the offsite area against the dischargers is still pending. Whether groundwater extraction will be required in the area north of Highway 101 is still to be determined.

ADVANCED MICRO DEVICES, BUILDING 915, 915 DEGUIGNE DRIVE, SUNNYVALE

ACTIVITIES: APRIL THROUGH JUNE 1992

Water levels in the A and B1 water-bearing zones increased as compared to the previous quarter. While water levels in the A-zone have risen in wells that were sampled the majority of A-zone wells remain dry. Water levels in the B2-zone decreased slightly. This decrease in the B2 may be the result of increased rates of groundwater extraction in wells along Duane Avenue. These wells were installed as part of a remedial action program at a neighboring site.

Extraction continued throughout the quarter. While water levels rose in the A aquifer, groundwater extraction from this aquifer was still very limited. The average total extraction rate from eight extraction points was about 55 gpm during this quarter. More than 80% of the water extracted is attributable to extraction from wells completed in the B1 and B2 zones. Since some wells are completed in multiple water-bearing, it can not be determined what portion of the remaining 20% of extracted water is being produced from the A-zone; however, it is probable that it approaches 0%.

The most notable changes in contaminant levels at this site are the increase in TCE in two upgradient wells and in well 45dd. Well 45dd is a downgradient B2 zone monitoring well. Concentrations of TCE in groundwater from this well first contained low levels (less than MCLs) of TCE in 1987. However, recent analytical results have been slightly greater than 5 μg/l. The sample collected and analyzed for the second quarter contained 28 μg/l of TCE. This may be related to a decline in extraction rate from a nearby extraction well completed in the B2 zone. Selected wells were also analyzed for Title 22 metals. No metals above applicable drinking water standards were detected.

The treatment system was in compliance with

NPDES requirements during the second quarter. The system was shut-down for maintenance twice during the second quarter for a total of about two weeks. Some of the maintenance was required as a result of the leak of granulated organic carbon that occurred in the first quarter and part was a result of routine maintenance.

REGULATORY EVENTS: APRIL THROUGH JUNE 1992

Deed restriction language was approved for the site in June 1992.

PROJECTED EVENTS: JULY THROUGH DECEMBER 1992

Quarterly reports documenting progress will be submitted throughout 1992. Extraction rates have been increased at an upgradient site and additional extraction wells have been installed. The impact of these changes on the upgradient sources will be investigated further. Additional action regarding the increased TCE concentration detected in well 45dd will be pursued. This will include investigation of increasing the extraction rate by re-working the existing B2-zone extraction well or installing additional extraction wells. The deed restriction will be recorded no later than August 1992.

UNRESOLVED ISSUES:

The need for additional extraction wells, as described above, is an unresolved issue.

APPLIED MATERIALS, INC.
3050 BOWERS AVENUE, SANTA CLARA

SITE ACTIVITY/ACCOMPLISHMENTS

1. Monthly reports (NPDES) are being submitted as required. There were no reported incidents of non-compliance for the reporting period.

2. Revised deed restrictions were once more submitted for review; they were finally found to be acceptable, and have been submitted by the discharger to the proper office for recording. This process reportedly takes about four weeks (from mid-June).

3. The proposed site work (soil investigation) has been completed and the Consultant is preparing a final report to be submitted in August.

4. Extraction well AM1-10 was sampled in May. Reported concentrations were lower than previously reported: 1,1,1-TCA at 6700 ug/l (down from 11,000); 1,1-DCA at 1100 ug/l (down from 1400); and 1,1-DCE at 310 ug/l (down from 380).

AGENCY (BOARD) ACTIVITY/EVENTS

1. Revised deed restrictions were once more received and reviewed, and this time found to be acceptable. A transmittal form was signed by the EO, his signature was notarized, and the package was returned to Applied Materials' outside attorney for action.

2. Staff met with Applied Materials and its Consultant on May 29, at which time the results of the soil investigation were described to staff. AM was unable to drill borings as originally planned, but was able to obtain information which appeared to show the presence of high levels of VOCs in a soil layer in the saturated zone, at the base of the A-aquifer, at a depth of about 20-25 feet. A final comprehensive report from the Consultant is expected about mid-August.

FUTURE ACTIVITIES

During the next quarter (July-September 1992) staff expects Applied Materials to submit routine monthly NPDES permit reports, the periodic monitoring report for February-May 1992, and the final comprehensive soil investigation report. Staff anticipates proposing amendments to the SCR at some later time this year, based on the results of the soil investigation and the pending report.

CTS PRINTEX, 1905, 1911, 1921, AND 1931 PLYMOUTH STREET, MOUNTAIN VIEW

CURRENT STATUS:

Pursuant to Order 91-081, CTS submitted an Evaluation of Remedial Alternatives on December 2, 1991. This was followed by an additional report dated February 14, 1992, as requested by staff. Still incomplete, a technical meeting was held July 8th to discuss how the capture zone analysis was developed, and how

CTS has demonstrated that the extraction system has been effective.

On May 26, 1992, Regional Board staff issued two letters regarding installation of an additional monitoring well, as required by the Order. Since CTS has reported difficulty in negotiating an access agreement with the City of Mountain View, staff wrote a letter to Mountain View's Public Works Department requesting re-evaluation of the application. In addition, Regional Board staff issued a letter to CTS stating that alternatives must be proposed if access is again denied by the City. The status of this requirement was also discussed during the July 8th meeting.

Groundwater extraction systems continued operation and a report made by telephone for the second quarter 1992 groundwater monitoring indicated there was no significant change in the water table from the previous quarter. Chemical concentrations also showed no appreciable changes from the previous quarter. The groundwater status report was submitted July 15.

PROJECTED ACTIVITIES FOR NEXT QUARTER:

No major tasks are required for Order No. 91-81, with the exception of installation of an additional monitoring well on the western boundary.

FAIRCHILD, SAN JOSE

CURRENT STATUS

The final Remedial Action Plan (RAP) was adopted by the Regional Board in January 1989. The RAP set cleanup standards for on-site groundwaters at MCLs and for off-site groundwaters at less than one fourth the MCLs. In order to help meet these cleanup standards, soil cleanup goals were set for the on-site area, which is surrounded by a slurry wall. The Regional Board amended the RAP in May 1990 in response to soil-cleanup issues raised during an appeal. This modification allowed Fairchild to demonstrate that its prior soil cleanup was sufficient to protect groundwater. Fairchild would return water to the on-site aquifers and see whether chemicals remaining in the soil leached out. RAP modifications do not change the groundwater cleanup standards, but rather the methods used to achieve those standards.

Fairchild proposed three further modifications to its remedial program in September 1991: (i) a new on-site extraction well, (ii) intermittent discharge of groundwater extracted on-site, and (iii) a one-year shut-down of the off-site extraction wells. Board staff approved all three. The first two modifications, implemented in late 1991, are intended to enhance the efficiency of the on-site remedial actions. The third modification, implemented in December 1991, is based on computer modeling which shows that groundwater pumping is ineffective in speeding up remediation of the aquifers at this site. This model predicts that off-site cleanup will take 15 years, whether or not off-site pumping occurs.

During the last quarter, Fairchild operated the on-site extraction system for one month (April), discharging the treated groundwater to the storm drain. This is consistent with the intermittent operation proposal cited above. The off-site extraction wells were shut down as part of the approved one-year demonstration project. On-site groundwater data suggest that the B-aquifer has resaturated and groundwater concentrations of VOCs significantly exceed cleanup goals.

FUTURE ACTIVITY

During the next six months, Fairchild will complete its evaluation of the on-site resaturation program, and may request permission to continue discharging to the storm drain. Based on preliminary results, Board staff will probably request that Fairchild propose additional remedial measures for on-site soils and groundwater. Fairchild will continue its one-year study of no off-site groundwater pumping. Board staff will review the new model and decide whether to extend the no-pumping period after the one-year shutdown.

HEWLETT-PACKARD, 640 PAGE MILL ROAD, PALO ALTO

CURRENT STATUS:

An RI/FS was submitted on April 1, 1991 for on-site and off-site in the California, Olive and Emerson Streets (COE) area. The RI/FS was considered not complete due to the discovery of a more complex hydrogeologic environment then first predicted. Additional data has been gathered at the site and future data will be gathered to complete the information required for a resubmittal of the RI/FS. The 640 buildings have

been demolished in preparation for redevelopment of the site. Remediation associated with this redevelopment includes soil excavation to remove metal and semi-volatile organic compounds.
Design and future installation of soil vapor and groundwater extraction Interim Remedial Measure systems at the 640 site has been approved by Board staff. These systems will be installed as part of the new 640 building during construction. The foundation and remediation systems are integrated in the new building and are expected to be installed by November of this year.

All soil sampling in preparation for soil removal has been completed and a majority of all the planned excavation is in progress or has been completed. All structures have been demolished above ground surface.

FUTURE ACTIVITIES

The RI/FS will not be completed until at least 1993. The Baseline Health Risk Assessment is being written by ICF Clement under contract to the USEPA for the on-site and COE areas. Preparation and local permit acquisition for installation of the interim remedial measure system for the COE area is currently under way. Additional groundwater extraction wells above what has been approved will be required in the future. A report detailing additional data that has been gathered will be submitted by the end of July.

During redevelopment, some of the observation, monitoring and extraction wells will be decommissioned due to construction activities. A temporary extraction well will replace the decommissioned extraction well in the next several weeks but the replacement of the observation and monitoring wells will wait until completion of construction activities. Excavation of the new building footprint should begin sometime in the next quarter.

HEWLETT-PACKARD, 1501 PAGE MILL ROAD, PALO ALTO

CURRENT STATUS:

Site Cleanup Requirements were adopted in June 1991 establishing RI/FS tasks and schedules. The RI/FS was originally due in June of 1991, however, due to the discoveries of additional plumes of chemicals and due to the need for further definition of the known plumes, this date has been informally extended by Board staff. During this past quarter, HP submitted the RI which is currently under review by Board staff.

The site has recently installed three interim remedial measure extraction wells. These wells will make a total of six extraction wells at the site. The additional extraction wells will capture the area of the northwest TCE plume with the highest chemical concentrations. The full extent of this plume off-site is still not fully known at this time.

Definition of the boundary of the main plume is fairly well understood in the deep zones but more definition is needed in the shallow zone. Additional work has been done to define the plume on the south side of the 1501 buildings where wells from other site investigations provide the needed information for fairly complete characterization...

The Feasibility Study was also submitted this quarter. The Baseline Public Health Evaluation was submitted this last quarter and was evaluated by Clement International Corporation for the Regional Board.

FUTURE ACTIVITIES

Hewlett Packard will present their revised BPHE in response to Clement's review. The RI will be completely reviewed by the end of next quarter and Hewlett Packard will be proposing additional investigation/remediation work and redrafts as necessary.

HEXCEL MANUFACTURING PLANT AND THE ABANDONED DISPOSAL SITE, LIVERMORE

DISCHARGER ACTIVITIES - SECOND QUARTER

Hexcel submitted in May, 1992, the Remedial Investigation report for the Abandoned Disposal Site Operable Unit (ADS OU). The RI work determined the extent of former refuse areas, the former resin pit and groundwater quality in the shallow aquifer. Quarterly groundwater sampling was initiated after a two year sampling hiatus. The groundwater sampling results indicate that no chlorinated VOCs are present. During the remedial investigation work however, methane

gas was detected above the lower explosive limit in some shallow soil borings. Hexcel submitted a workplan in May, 1992 to further investigate the occurrence of methane gas in the subsurface.

The current owners of the property, F&P Properties, submitted a workplan for the investigation of observed surface petroleum releases for the two operating businesses, Jag's Diesel and Mountain Cascade. The workplan was incomplete and resubmitted in June, 1992.

BOARD ACTIVITIES SECOND QUARTER

Staff performed a site inspection at the ADS OU in May, 1992. The inspection was related to F&P Properties cleanup actions for petroleum discharges, the proposed workplan and site maintenance. A workplan for a soil investigation was requested by staff for F&P Properties to evaluate the nature and extent of suspected pollution caused by F&P's business, Mountain Cascade, and their lessee, Jag's Diesel. An incomplete workplan was submitted on May 20, 1992, and staff later met onsite with F&P's consultant to discuss the requirements of the work plan. A revised workplan was submitted on June 22, 1992. A review of the ADS OU RI report is in progress.

DISCHARGER ACTIVITIES, THIRD QUARTER

Hexcel will continue with the concurrent quarterly groundwater monitoring for the Hexcel Manufacturing Plant Operable Unit (HMP OU) and the ADS. Hexcel will be conducting further methane gas monitoring at the ADS to determine if hazardous conditions are present. A revised RI report for the ADS will be prepared in response to Board staff comments. The revised RI report will also include results from the methane gas investigation. No new work has been performed onsite at the HMP OU or the ADS OU at this time since completion of the remedial investigation reports.

F&P Properties began their site investigation for petroleum discharges at Jag's Diesel and Mountain Cascade on July 2, 1992. Results of the sampling will be ready by late August, 1992.

BOARD ACTIVITIES, THIRD QUARTER

Staff will be submitting comments on the ADS RI documents to the responsible parties and to EPA. It is anticipated that the RI report and risk assessment, which includes both the manufacturing plant and the disposal site, will generate community interest in the sites and at least one community meeting will be held during the third quarter. Staff will continue to conduct additional periodic site inspections at the ADS and HMP OUs. Staff anticipates finalizing a draft record of decision by the end of this quarter.

A revised workplan for remedial investigation work to be performed at the business properties owned by F&P was submitted on June 22, 1992. The revised workplan was found acceptable on June 24, 1992.

DISCHARGER ACTIVITIES, FOURTH QUARTER

Hexcel will be finalizing proposed remedial alternatives for the two operable units. F&P may begin work, if warranted, on remedial actions associated with discharges of petroleum products.

BOARD ACTIVITIES, FOURTH QUARTER

Staff will be submitting to the Board and to the EPA Region IX headquarters for consideration of adoption of the record of decision for the final remedial actions. This will open a 60 day public comment period. Comments obtained from interested parties will be addressed or incorporated into a final document. It is anticipated that at least one community meeting will take place during this quarter.

INTERNATIONAL BUSINESS MACHINES, SAN JOSE

CURRENT STATUS

During the last quarter IBM continued implementation of the October 1988 Final Remedial Action Plan, which contains cleanup goals similar to those for Fairchild (San Jose). All on-site extracted groundwater was reused, by reinjection, landscape irrigation, or as feed water for industrial use. The soil vapor extraction system was particularly effective.

Efforts to reuse off-site extracted groundwater continued. One proposal involved adding it to the domestic supply at the Snell Road pipeline (direct reuse). The Santa Clara Valley Water District, in response to public opposition to the proposal, expressed its concern over the

proposal. The State Department of Health Services also faulted the proposal, based on a requirement that extraction wells be sufficiently separated from sanitary sewers.

Another proposal involves piping off-site groundwater to a new residential development by Shea Homes. Shea Homes would reuse the groundwater for construction activities (e.g. dust control) and golf course irrigation. The reuse project would include a 6-mile pipeline costing about $3 million, with costs to be shared by IBM and the developer. The proposal depends on a long-term commitment by IBM to deliver water. Any agreement will take some time to be concluded.

FUTURE ACTIVITIES

In April 1992, IBM proposed a reduced pumping rate at two off-site extraction wells, in response to the Santa Clara Valley Water District's early 1992 suspension of groundwater recharge. The proposed reduction is based on computer modelling which predicts no migration of the chemical plume with reduced pumping. IBM would monitor the results of less pumping and evaluate the results after one year. The proposal will save 120 million gallons of water per year. Board staff recommend approval of the proposal in June; the matter was considered and approved at the Board's July 15 meeting.

INTEL, SANTA CLARA III, SANTA CLARA

CURRENT STATUS

The Final RAP for the site was adopted by the Board in July 1990. Intel submitted a report titled "Cyclic Pumping Demonstration Project, Evaluation and Evaluation Recommendations for Further Actions" dated October 30, 1991. Cyclic pumping (also known as pulsed pumping) is believed to be a method for improving groundwater remediation efficiencies. The theory maintains that while the extraction system is on, chemical equilibrium between soil and water is not achieved due to the short residence time of the water in the residual source areas. Turning the extraction system off allows more time for VOCs to desorb or diffuse from soil into groundwater until equilibrium is reached.

Based on the October 1991 report, the 60-day on/60-day off cycle does not appear to be an efficient substitution for continuous pumping. As a result, after discussions with Board Staff, Intel initiated a 120-day off cycle to determine whether a longer off cycle will allow a greater quantity of VOCs to desorb into the groundwater and result in a higher concentration of VOCs in the extracted groundwater. The 120-day off cycle began in January 1992 and ended in May 1992, at which time Board staff collected a split sample of the extracted groundwater when the extraction well pumps were turned back on. Reports on the effectiveness of the cyclic pumping will be submitted in lieu of the second and third quarter NPDES monitoring reports. The first report is due July 31, 1992.

FUTURE ACTIVITIES

On-site groundwater extraction and treatment continues as part of the final remedial action at the site. Currently, approximately 30,000 gallons per day of groundwater is extracted and treated to remove volatile organic chemicals. Board staff will continue to monitor the site and review quarterly reports submitted by Intel.

INTEL MAGNETICS/MICRO STORAGE, SANTA CLARA

CURRENT STATUS

The Final Remedial Action Plan (RAP) for the site was adopted by the Board in July 1991. Board staff transmitted a letter dated December 2, 1991, to the potentially responsible parties (PRPs) regarding their compliance with tasks contained in the RAP. The PRPs were in compliance with tasks concerning definition of the northwest plume margin and submittal of the Administrative Record. The PRPs were not in compliance with tasks concerning evaluation of the effectiveness of the interim hydraulic containment system / recommendations for further actions and the submittal of an acceptable proposed deed restriction (see discussion below).

Based on the PRP's evaluation of the interim hydraulic control system, board staff required the discharger to explain how the downgradient portion of the plume will be remediated. The PRP's submitted, in the first quarter of 1992, an evaluation of the downgradient portion of the plume and alternatives for dealing with the uncaptured portion of the plume. Board Staff has reviewed the evaluation and will send comments to the PRP's in the third quarter of 1992.

Draft deed restrictions to prohibit the use of the shallow groundwater at the site have been submitted by the two property owners. Kim Camp III submitted a revised draft in February 1992. Board staff sent a letter in April 1992 requesting additional modifications of the proposed deed restriction. Kim Camp III is due to submit another revision.

Intel (on behalf of the property owner, 3000 Oakmead Village Drive Ltd.) submitted a revised deed restriction, dated November 7, 1991, for the 3000 Oakmead Village Drive property. Staff transmitted comments to Intel in early March 1992. Intel's revised submittal is expected in July.

FUTURE ACTIVITIES

Board staff work scheduled for completion in the next six months includes:

- Responding to the PRP's evaluation of the effectiveness of the interim hydraulic containment system contained in the January 31, 1992, Quarterly Monitoring Report prepared by J.V. Lowney Associates.
- Preparing revisions of the Self-Monitoring Programs (SMP) contained in Order No. 91-119 (Micro Storage/Intel Magnetics) and Order No. 91-100 for Metropolitan Corporate Center based on the results of the definition of the northwest plume.
- Continue to try and find information on the chemical use history of possible upgradient pollution sources.

Currently, approximately 11,000 gallons per day of groundwater is extracted and treated to remove volatile organic chemicals. Board staff will continue to monitor the site and review quarterly reports submitted by the PRPs.

NATIONAL SEMICONDUCTOR CORPORATION (NSC) & ADVANCED MICRO DEVICES (ARQUES) (formerly Monolithic Memories), SUNNYVALE & SANTA CLARA

At the NSC and AMD sites, work completed and work projected is pursuant to the final Remedial Action Plan (RAP) adopted by the Board at its September 1991 meeting. The RAP contains compliance tasks and time schedules for the remediation of soil and groundwater in Operable Unit 1, which consists of the NSC and AMD facilities and the downgradient commingled plume area.

NATIONAL SEMICONDUCTOR

National Semiconductor submitted a third draft of the deed restriction in June. Board staff and NSC are currently negotiating the final terms of the deed restriction, and anticipate that the fourth draft will be acceptable and implemented within 60 days of approval pursuant to the RAP. Hewlett Packard and Shahinian Trust have also submitted draft deed restrictions, which were reviewed by Board staff. The final drafts for the Hewlett Packard and Shahinian Trust sites will be modeled after the final deed restriction for the NSC property.

Board staff met with NSC in May to discuss the concerns regarding the proposed soil vapor extraction workplan. An addendum addressing the issues discussed during the meeting was submitted in June. Based on initial review, the addendum appears to address Board concerns; however, a more detailed review of the addendum is scheduled for the third quarter of 1992.

Board staff also reviewed the Groundwater Extraction System Evaluation Report, and met with representatives from AMD to discuss the report. The groundwater pump and treat system appears to be mitigating the groundwater contamination near the source areas. However, due to existing data gaps, staff feels that there is a possibility that contamination in the A and B groundwater aquifers in off-site areas is not being sufficiently captured. Additional field work is necessary to demonstrate that the AMD site (Subunit 2) and the other properties downgradient from NSC (Subunit 3) are not being further impacted. Board staff are requesting a workplan for the installation of additional extraction wells, monitoring wells and/or piezometers.

Groundwater monitoring reports and NPDES monitoring reports for the first quarter of 1992 have been submitted and reviewed. Reports for the second quarter have not yet been submitted. The groundwater extraction and treatment system continues to operate at the site. During the first quarter, the system extracted approximately 154 gallons per minute, and removed a total of 146

pounds of VOCs.

NSC has also submitted the Revised Field Sampling Plan. Because groundwater contamination levels and trends have been established in several years of groundwater monitoring, staff are allowing a reduction in monitoring frequency in some wells.

Work anticipated for the next quarter includes implementation of finalized deed restrictions, start-up and evaluation of the Lakeside groundwater extraction and treatment system (near Highway 101), submittal of a workplan to expand the pump and treat system in Subunit 1, start-up of the soil vapor extraction system, and submittal of a workplan for soil excavation.

ADVANCED MICRO DEVICES (ARQUES)

Advanced Micro Devices submitted the final draft of its deed restriction in June. Per the RAP, the site constraints should be implemented by August.

AMD conducted additional field studies in order to design the soil vapor extraction system. The vapor extraction workplan and a soil excavation workplan were submitted in late June. Board staff will review the reports in July.

Groundwater monitoring reports and NPDES monitoring reports for the first quarter of 1992 have been submitted and reviewed. Operational data for the second quarter have not yet been submitted. The groundwater extraction and treatment system continues to operate. During the first quarter the system extracted approximately 80 gallons per minute and removed a total of 14.4 pounds of VOCs.

In June, Board staff and representatives from AMD met with members of the Lakewood Village Neighborhood Association to discuss the status of the AMD and the NSC sites in the area.

Tasks anticipated for the third quarter include implementation of site constraints, evaluation of the groundwater treatment system, start-up of the soil vapor extraction system, and initiation of soil excavation.

RHONE-POULENC/SANDOZ CROP PROTECTION, EAST PALO ALTO

ACTIVITIES DURING APRIL-JUNE

Soil sampling to prepare for remedial design was completed. This sampling delineated areas to be removed, treated and/or deed restricted. The data was presented in the Pre-Treatment Sampling and Soil Treatment Depths Reports submitted on May 1, 1992.

The Ecological Assessment Report, which evaluated the impacts to wildlife in both the tidal and non-tidal marsh areas near the site, was submitted to agencies on April 15, 1992. This document will be used to evaluate condition of the wetland and to develop the Wetland Operable Unit Feasibility Study which is scheduled for submittal October 30, 1992.

Several meetings were held with respect to the Remedial Design Report. The report was submitted to the agencies on May 1, 1992. Comments from the agencies were responded to in a letter submitted on June 15, 1992.

Work on the Wetlands Feasibility Study will continue. The document is schedule for submittal in October.

ACTIVITIES JULY-OCTOBER

Full scale remediation of the Upland OU is scheduled to begin in July, 1992. The work will include soil treatment and capping. The work shall continue into early fall.

A Final Ecological Assessment is scheduled for submittal in August.

A public meeting is scheduled for July 16, 1992. The meeting will be to present the remedial design to the public as well as the results of the ecological assessment.

SIEMENS/INTERSIL, CUPERTINO

CURRENT STATUS

The final Remedial Action Plan for this site was adopted by the Regional Board in August 1990, and EPA issued a concurring ROD. The RAP calls for additional groundwater extraction wells and soil vapor extraction wells. All work needed to implement the RAP has been completed. With

the addition of the new wells, Intersil has 7 soil vapor wells and 7 groundwater extraction wells; Siemens has 16 soil vapor wells and 18 groundwater wells; and offsite there are 3 extraction wells. Additional treatment facilities for groundwater and soil vapor have been installed. The final off-site groundwater extraction system as proposed in the RAP has been completed.

FUTURE ACTIVITIES

During the last quarter, remediation continued as required by the RAP. In April, Siemens/Intersil requested permission to close 4 deep-aquifer monitoring wells off-site, in order to avoid possible damage due to construction activities. Board staff approved the request on June 4, 1992, given that no VOCs were detected in these wells. Shortly afterward, the city of Santa Clara reported PCE concentrations slightly over drinking water standards in a down-gradient public well (#24). Board staff are investigating to see if this result is correct and, if so, to determine the PCE source.

SOLVENT SERVICE, 1021 BERRYESSA ROAD, SAN JOSE

ACTIVITIES APRIL - JUNE 1992

The pump installation completed in the previous quarter continues to have a significant positive affect on the shallow groundwater at the site. The cone of depression around the extraction trenches continued to enlarge into the second quarter. Groundwater level contour maps now resemble maps from 1988 and earlier. The volume of water extracted from the A-aquifer increased in the second quarter. Since water level the A-aquifer has decreased by an average of about 0.5 feet it is probable that the increased rate of extraction is related to improved well efficiency and not increased a-zone water levels.

A spill occurred at the site in June. This spill was from a tank that is used to equalize and store acid waste prior to treatment as part of site operation. The majority of the spill occurred in the vapor phase. However, some liquid did leak and was captured within the containment area for this tank. The spill did result in some disruption of site activity; for instance, the destruction of three site monitor wells scheduled for June 1992 has not been completed.

Review of the interim ATSDR health assessment for this site was completed in May. The major concern in the health assessment was the possible vapor exposure related to normal site operations, not remedial activities.

REGULATORY EVENTS; APRIL THROUGH JUNE 1992

None

PROJECTED EVENTS; JULY THROUGH DECEMBER 1992

Additional site construction, including the installation of a cap on portions of the site, is anticipated to begin in September. This will result in the temporary shutdown of the SIVE system. The quarterly report for the second quarter 1992 will be submitted in July 1992.

UNRESOLVED ISSUES:

The final site access agreement between Chevron and Solvent Service has not been completed. This agreement is necessary to allow construction and monitoring of the BTXE groundwater plume. Chevron and Solvent Service are working together to resolve this impasse.

SYNERTEK #1, SANTA CLARA

CURRENT STATUS

The Final RAP for the site was adopted by the Board in March 1991. Operation of the B zone groundwater reinjection system commenced on December 6, 1991. The reinjection system consists of two extraction wells pumping a combined total of six gallons per minute (gpm) and one reinjection well reinjecting six gpm. The four A zone extraction wells continue to pump at a combined rate of about 12 gpm.

In a letter dated November 21, 1991, Board staff commented on two addendums to the groundwater reinjection plan submitted on behalf of Honeywell as Synertek's owner. The addendum concerned sampling and analysis requirements relative to the new ion exchange treatment system and a reinjection monitoring program. The November 21, 1991 letter required Honeywell to submit: (1) fish toxicity results of the ion exchange reject water, (2) results of a six month hydraulic control study relative to the reinjection program (due August 15, 1992), and

(3) a reinjection system operation and water quality report in future Quarterly Monitoring Reports. Board Staff will review these submittals as they become available. Preliminary fish toxicity data indicates that the backflush water from the ion exchange system is a source of toxicity in the extraction and treatment system. The discharger is working to resolve this problem.

FUTURE ACTIVITIES

Groundwater extraction and treatment continues as an integral part of the final remedial action at the site. Currently, approximately 26,000 gallons per day of groundwater is extracted and treated to remove volatile organic chemicals. Board staff will continue to monitor the site and review quarterly reports submitted by Honeywell.

TELEDYNE AND SPECTRA-PHYSICS, MOUNTAIN VIEW

CURRENT STATUS:

In February of 1991 the Board adopted a final Remedial Action Plan and EPA issued a record of decision. The RAP calls for groundwater extraction off-site and at the Teledyne facility. The RAP also requires additional soil treatment at the Spectra Physics facility.

During the last quarter, on-site work that has been completed includes testing of the soil vapor extraction system and the continuation of groundwater monitoring, extraction and treatment.

Off-site work associated with finalizing the revised Non-Binding Allocation of Responsibility (NBAR) includes activities at four sites. The Joaquin Road site is not considered a likely source of contaminants. Three of the sites are actively pursuing site investigations. The Space Park Way/Coastside Nursery site is the only site that requires additional investigation. Additional off-site groundwater extraction wells are currently being installed in the northwest corner of the plume to remove contamination that has, until May 1991, had been removed by the City of Mountain View Landfill groundwater extraction system.

A Cleanup and Abatement Order was issued to the owners of a site (Alta site) that has been contributing additional pollutants to the off-site plume. The Alta site must further define and capture contaminants in the northwest contamination area. This investigation has found some contaminants and will be submitting the results by September 8, 1992

FUTURE ACTIVITIES

The NBAR process will continue as each of the downgradient PRPs will have to do individual site investigations. The investigations may include additional enforcement by Regional Board staff. It is expected that site investigations will start at least one additional site. Another site (Montwood site) is expected to submit a detailed extent of contamination report within the month. The groundwater cleanup zone comprising the North Bayshore Extraction System will be required to be reevaluated because of the installation of extraction wells in the northwest corner of the plume and the shut-down of the groundwater extraction trench at the City of Mountain View Landfill. Teledyne/Spectra-Physics is requesting a finalization of the NBAR soon, perhaps in the next quarter.

VAN WATERS & ROGERS, INC, SAN JOSE

CURRENT STATUS:

On April 29, 1992 RB, staff issued a letter to VW&R regarding NPDES permit renewal. The application required minor additional information. Since that time, staff notified VW&R that RB may go to a general permit for groundwater discharges sometime in the near future. The current permit will act as temporary until a new one can be issued.

On May 21, 1992, RB staff issued a comment letter to VW&R regarding the Preliminary Design for the Expanded Groundwater Treatment System and a Preliminary Design for In-Situ Vapor Extraction System. The vapor extraction system design requires clarifications regarding 1) considerations of heterogeneous materials in the vadose zone, 2) description of well locations and rationale, 3) how VW&R will quantify the remaining VOCs in soil, 4) water-vapor drop out in system design, 5) when the temporary cap will be in place in the rail spur area, and 6) and RB requirements for reporting results and sampling.

The comments on the groundwater extraction and treatment system pertained to the maximum capacity for flow of the system, and the well

locations for the new extraction wells in the B zone. Responses to the comments on these two systems were received on July 2, 1992.

VW&R submitted a report on Institutional Constraints to be implemented at the site. This report included a draft deed restriction; the final version was received in the RB office on June 3, 1992. RB staff will request that the final version be signed by all appropriate parties and recorded.

The second quarter 1992 groundwater status report was received by telephone. Results of sampling indicated general decreases in chemical concentrations, except for wells 12 and 31 which showed an increase. VW&R believe increases may be due to several modifications to the treatment system, which required temporary shut-down over the past couple of months.

VW&R reported that the treatment system (air stripper) would be repacked in the next few weeks. Several mechanical and electrical problems with the system have caused intermittent running of the system. In a phone call on June 30, 1992, VW&R reported effluent values exceeding the limits in the permit.

PROJECTED ACTIVITIES FOR NEXT QUARTER:

1) The proposed plans for expanded groundwater and vapor extraction will require revision; final design and implementation of the plans will follow. No other major tasks pursuant to the Order will be required until January 1993 (evaluation of remedial measures).

2) File and record deed restriction .

CALIFORNIA EPA -- DEPARTMENT OF TOXICS SUBSTANCES CONTROL LEAD SITE:

LIQUID GOLD, RICHMOND

CURRENT STATUS:

On June 19, 1992, SPTCo (the responsible party) submitted a final draft of the Feasibility Study. This report incorporates comments from all the agencies' correspondence, as well as discussions from various meetings held last quarter. The agencies have agreed to review and submit comments to DTSC by July 24, 1992.

Based on a telephone report of groundwater data for this quarter, no significant changes have occurred in water table elevation or chemical concentrations. The groundwater status report is due July 15, 1992.

PROJECTED ACTIVITIES FOR NEXT QUARTER:

1). Review and comment on FS by July 24, 1992.
2). Proceed with finalizing FS and Record of Decision. Begin Remedial Design.

EPA LEAD SUPERFUND SITES:

JASCO, MOUNTAIN VIEW

Various activities continued at this site, including groundwater monitoring and groundwater extraction for interim remediation. Jasco has submitted a final RI/FS and a final treatability study to investigate bioremediation of soils and groundwater. EPA approved Jasco's RI/FS and treatability study on May 21, 1992. EPA issued a proposed cleanup plan in early June 1992; the plan calls for expanded groundwater extraction, treatment prior to POTW discharger, deed restriction prohibiting wells in shallow groundwater, and ex-situ bioremediation of soils. A public meeting was held on June 24, and the public comment period ran from June 7 to July 6, 1992. EPA expects to issue the ROD in August or September 1992.

LORENTZ BARREL AND DRUM, SAN JOSE

ACTIVITIES: APRIL THROUGH JUNE 1992

During the current quarter, operation of the groundwater extraction and treatment system continued at this EPA lead site. Staff participated in a meeting with San Jose State University (SJSU) staff, Santa Clara Valley Water District, EPA's project manager, and EPA's contractor to discuss the possible impacts of a water supply well at SJSU on the LB&D groundwater contaminant plume. Additional data will be provided by SJSU regarding the pumping rate of operating well and any available data regarding a previously abandoned well at the stadium site.

Board staff toured the site with EPA personnel during May 1992. Operation of the treatment system was explained by the site contractor. Discussions were held with EPA and EPA's contractor regarding the lack of QA/QC samples for NPDES permit. The yearly inspection and sampling by Board staff was discussed. The site sampling and plan was finalized in July 1992.

REGULATORY EVENTS: APRIL THROUGH JUNE 1992

None

PROJECTED EVENTS: JULY THROUGH DECEMBER 1992

Additional monitor wells will be installed to assess the possible impact of the SJSU production well on the C zone gradient and to serve as an "early warning" for contaminant migration. Some site structure may be removed and additional soil remedial activity is under consideration.

UNRESOLVED ISSUES

The need for additional investigation or removal of onsite sumps and other possible areas of contaminated soils is still be considered.

MIDDLEFIELD-ELLIS-WHISMAN SITES, MOUNTAIN VIEW

EPA has negotiated a consent decree for the design and implementation of final cleanup activities with most of the responsible parties. EPA Region 9 staff and Intel and Raytheon agreed on a draft consent decree, which received court approval in April 1992. Fairchild is the main hold-out in the negotiation process. EPA issued a unilateral enforcement order to Fairchild and several minor dischargers in November 1990. Fairchild challenged EPA's ROD revision (which changed cleanup goals to standards) and other aspects of the negotiation process. A federal court dismissed the challenge, but Fairchild is appealing the decision. Various responsible parties at this site have begun submitting RD/RA reports in response to the unilateral order or the consent decree. Design work for the remedial measures is in progress.

NAVAL AIR STATION, MOFFETT FIELD (DOD FACILITY / EPA LEAD)

As of March 1, 1992, this site is officially staffed for oversight by staff of the Regional Board's Ground Water Protection / Waste Management Division. They will be responsible for reporting site cleanup progress.

UNITED HECKATHORN, (aka: LEVIN METALS), RICHMOND

CURRENT STATUS:

On June 19, 1992, Regional Board staff met with EPA and PRPs for United Heckathorn. The meeting covered preliminary results of sediment and biota sampling in Richmond Harbor, results of COE sampling results related to dredging in the Harbor, the status of remaining RI work to be done, results of the ATSDR Health Assessment, and a report on what was found by divers in Lauritzen Canal.

Regarding the Harbor biota sampling indicated the highest quantity and diversity of organisms were present in Lauritzen Canal, and decreased from Santa Fe Channel and to Richmond Inner Harbor. Solid phase amphipod testing (sediment toxicity testing showed decreasing survival from the head of Lauritzen Canal to Santa Fe Channel. DDT and Dieldrin concentrations in mussel tissue showed the highest concentrations in organisms in Lauritzen, and decreasing in Santa Fe, followed by Richmond Channel. The remaining results have not yet been reported to EPA, but the final report is due in October 1992.

There was discussion of combining the COE dredging project for Richmond with the remediation work required for the United Heckathorn site. This will be pursued by EPA

and PRPs. There was also discussion of how the dredged material can be disposed. This issue has not been completely resolved, although innovative options are being considered.

The PRPs are developing their own RI plans, separate from work contracted by EPA. Montrose and Stauffer performed a subsurface survey of Lauritzen Canal in November of 1990. Several large tanks were observed beneath the surface, which may have been part of the equipment used by United Heckathorn. More subsurface work will be done to determine what should be done with the tanks.

In the final Public Health Assessment, ATSDR concluded that the most significant concern would be from shell fish consumption. They also recommended that residential soil sampling be done for organochlorines. This work will be done this summer.

PROJECTED ACTIVITIES FOR NEXT SIX MONTHS:

Development of the RI/FS workplans.

WESTINGHOUSE, SUNNYVALE

The Record of Decision for this EPA lead site was signed in October 1991. EPA reached agreement with Westinghouse to start remedial design in February 1992.

The Consent Decree for final remedial action is currently under negotiation. Based on the final remedial design workplan, the remedial design field investigation continued this quarter. This field investigation includes installation and sampling of on-site and off-site monitoring wells, installation and testing of onsite pilot project A-aquifer extraction wells. The majority of this field investigation work was completed by June 1992.

Board staff supplied Westinghouse with application materials for permitting the discharge of treated extracted groundwater from the site during the first quarter 1992. Westinghouse intends to submit a completed application in the third quarter. Board staff will accelerate application processing so that the pilot groundwater pump and treat project can begin operation as soon as possible.

Additional field activities continue at the site. These activities include: monthly water level measurements, biweekly removal of sinking and floating non-aqueous product, and quarterly groundwater sampling.

STATUS OF REGIONAL BOARD MSCA SUPPORT CONTRACTS

DATA VALIDATION (INTERAGENCY AGREEMENT W/CSDHS)

The data validation agreement calls for the California Department of Health Services (DHS) to conduct data validation on analytical data from selected groundwater samples for eighteen Superfund sites. To date, DHS has reviewed 36 data validation packages. from MSCA sites (most sites have undergone at least two rounds of data validation). DHS completed a data validation package for Hexcel, the only site that had not conducted data validation at least once, during the second quarter 1992.

Board staff processed a nine-month time extension amendment to the FY 90-91 agreement that expired in March.

SUPERFUND LABORATORY CONTRACT

Pacific Environmental Laboratories (PEL) was the winning bidder for a Superfund Lab contract that will run from January 1, 1992 to June 30, 1993. The contract was executed in April 1992. The contract budget of $65,000 allows Board staff to submit split samples of groundwater and soils to PEL as a check on PRP generated data.

BASELINE PUBLIC HEALTH EVALUATION CONTRACT (W/ICF CLEMENT)

Clement performs reviews of Baseline Public Health Evaluations (BPHE) and Feasibility Studies (FS) for the Board. HP 1501 BPHE is currently under review. Under contract to EPA, ICF Clement is responsible for the HP 640 BPHE. Review of other BPHE and FS is expected later this summer.

TECHNICAL ASSISTANCE CONTRACT

Preparation of a new contract and the bidding process is anticipated to begin later this year.

TABLE III - E2

COST ESTIMATE FOR TASK E2 - NPL OVERSIGHT
ESTIMATED EXPENDITURES VS. APPROVED BUDGET AND STAFF - PHASE IIA GRANT 13 APRIL 1988 - 30 JUNE 1992

	APPROVED BUDGET APRIL 1988 - SEP 1992		ESTIMATED EXPENSES THIS QUARTER		TOTAL EXPENDITURES AS OF 30 JUNE 1992		ESTIMATED REMAINING CURRENT GRANT	
Personnel	Est. Staff Years	Est. Cost	Est. Staff Years	Est. Cost	Staff Years	Expended	Staff Years	Funds
Supervising WRCE	0.59							
Senior WRCE/Geologist	4.26							
Assoc WRCE/Geologist	20.48							
WRCE/Engr Geol/ES III	1.65							
Staff Services Analyst	0.89							
Accountant I	1.50							
Office Technician	0.28							
Office Asst II	2.05							
Temporary Help	2.22							
TOTAL	33.92 SY	$1,180,761	0.86 SY	$77,956	31.35 SY	$1,111,424	2.57	$69,337
FRINGE BENEFITS		$354,219		$23,481		$325,441		$28,778
INDIRECT COSTS		$1,238,382		$116,612		$2,301,596		($1,063,214)
EQUIPMENT (See Workplan for details)		$26,100		$3,291		$7,971		$18,129
CONTRACTS								
IPA		$171,000						$171,000
CONSULTANT CONTRACTS		$1,308,323		$21,971		$611,088		$697,235
Total Contracts:		$1,479,323		$21,971		$611,088		$868,235
TOTAL ESTIMATED RWQCB STAFFING AND COST	33.92 SY	$4,061,567	0.86 SY	$243,311	31.35 SY	$4,294,117	2.57 SY	($232,550)
			3%	6%	92%	106%	8%	-6%

8/13/92: APR - JUNE 92 QTR RPT

Table III-2A

SUMMARY OF SOUTH BAY MULTI-SITE COOPERATIVE AGREEMENT (MSCA - PHASE II) TOTAL EXPENDITURES
AS OF END OF THE QUARTER APRIL - JUNE 1992
(expenditures on State accounting reports as of 06/30/92 with contracts & equipment expenditures estimated)

TASK TITLE/SITE	AMD-901	AMD-915	APP MTL	CTS PRI	FAIR-MV	FAIR-SJ	HP1501	HP-640	IBM	INT-MV	INT III	INT MAG	INTERSIL	JASCO	LORENTZ	MOFFET	AMD/MMI	NAT SEMI
PCA / TASK CODE	72004	72005	72008	72099	72034	72036	72050	72051	72056	72059	72061	72062	72064	72207	72071	72079	72080	72084
EPA NPL SITE #	82	H1	83	H5	62	84	85	H9	40	86	88	87	J2	F6	89	C7	90	91
SALARY & WAGES:	32,388	25,311	89,304	25,074	6,242	24,255	32,036	91,853	49,798	7,156	35,056	41,234	24,912	1,562	16,423	0	55,750	83,483
SUB-TOTAL SAL & WGS	32,388	25,311	89,304	25,074	6,242	24,255	32,036	91,853	49,798	7,156	35,056	41,234	24,912	1,562	16,423	0	55,750	83,483
SALARY BUDGET	21,256	22,844	32,730	16,891	6496	16,258	34,258	38,629	14,505	6496	19,251	22,896	20,678	7,543	9,362	1,888	30,389	37,890
REMAINING BUDGET	(11,132)	(2,467)	(56,574)	(8,183)	254	(7,997)	2,222	(53,224)	(35,293)	(660)	(15,805)	(18,338)	(4,235)	5,981	(7,061)	1,888	(25,361)	(45,593)
BENEFITS:	9,046	7,598	26,792	7,088	1,873	7,279	9,611	27,539	14,592	2,145	10,515	12,369	7,472	469	4,927	0	16,727	25,044
SUB-TOTAL BENEFITS	9,046	7,598	26,792	7,088	1,873	7,279	9,611	27,539	14,592	2,145	10,515	12,369	7,472	469	4,927	0	16,727	25,044
BENEFITS BUDGET	6,378	5,958	9,820	5,068	3,030	4,879	10,278	11,588	4,352	1,949	5,775	6,868	6,203	2,263	2,809	566	9,116	11,367
REMAINING BUDGET	(2,668)	(1,640)	(16,972)	(2,020)	1,157	(2,400)	667	(15,951)	(10,240)	(196)	(4,740)	(5,501)	(1,269)	1,794	(2,118)	566	(7,611)	(13,677)
INDIRECT COSTS:																		
EXP/OBLIG/ENCUM	86,742	67,448	201,924	107,636	13,457	83,775	103,498	228,950	115,424	15,830	89,067	122,028	101,203	8,189	37,557	0	155,011	219,682
SUB-TOTAL INDIRECT	86,742	67,448	201,924	107,636	13,457	83,775	103,498	228,950	115,424	15,830	89,067	122,028	101,203	8,189	37,557	0	155,011	219,682
INDIRECT BUDGET	23,182	25,104	35,669	19,009	7,069	17,652	39,422	49,164	15,649	7,049	21,056	25,166	22,207	8,280	10,392	2,166	34,336	42,983
REMAINING BUDGET	(63,560)	(42,344)	(166,255)	(88,627)	(6,388)	(66,123)	(64,076)	(179,786)	(99,775)	(8,781)	(68,011)	(96,862)	(78,997)	91	(27,165)	2,166	(120,675)	(176,699)
CONSULTANTS:																		
CSDHS - DATA VAL																		
BASELN PUB HEALTH																		
TECHNICAL ASSIST																		
PRP SEARCH																		
LABORATORY SVCS																		
IPA(S) INC SPECIAL EXPENSES	22,142	14,349	16,668	21,557	860	8,614	22,831	25,190	8,033	943	15,173	14,413	18,271	180	1,178	0	18,730	16,982
SUB-TOTAL CONTRACT	22,142	14,349	16,668	21,557	860	8,614	22,831	25,190	8,033	943	15,173	14,413	18,271	180	1,178	0	18,730	16,982
CONTRACT BUDGET:	18,829	34,532	28,687	4,667	0	13,955	74,436	75,827	10,462	0	19,250	29,451	13,358	0	0	0	52,421	52,296
REMAINING BUDGET	(3,313)	20,183	12,019	(16,890)	(860)	5,341	51,605	50,637	2,429	(943)	4,077	15,038	(4,913)	(180)	(1,178)		33,691	35,314
EQUIPMENT:	399	398	399	399	0	399	399	399	399	0	399	399	399	0	0	0	399	399
EXPEND/OBLIG/ENCUM	399	398	399	399	0	399	399	399	399	0	399	399	399	0	0	0	399	399
SUB-TOTAL EQUIPMENT	399	398	399	399	0	399	399	399	399	0	399	399	399	0	0	0	399	399
EQUIPMENT BUDGET	777	740	1,062	526	134	714	496	701	714	134	720	740	693	334	334	0	506	506
REMAINING BUDGET	378	342	663	127	134	315	97	302	315	134	321	341	294	0	0	0	107	107
GRAND TOTAL EXP/ENC	150,716	115,104	335,086	161,754	22,432	124,322	168,375	373,930	188,246	26,074	150,209	190,442	152,257	10,400	60,085	0	246,617	345,589
GRAND TOTAL BUDGET	157,528	130,184	201,148	151,844	48,408	85,513	171,248	321,558	71,058	38,408	118,452	170,899	118,346	38,591	38,408	4,620	126,768	256,433
GRAND TOTAL REMAIN	6,812	15,080	(133,938)	(9,910)	25,976	(38,809)	2,873	(52,372)	(117,188)	12,334	(31,757)	(19,543)	(33,911)	28,191	(21,677)	4,620	(119,849)	(89,156)
% EXPND: BUDGET	96	88	167	107	46	145	98	116	265	68	127	111	129	27	156	0	195	135
PYs EXPENDED	0.877	0.727	1.94	0.34	0.174	0.9	1.09	2.87	1.68	0.53	1.04	1.14	0.557	0.03	0.488	1.19	1.56	2.63
PYs BUDGETED	0.63	0.68	0.69	0.52	0.23	0.49	0.88	1.02	0.45	0.23	0.51	0.59	0.63	0.25	0.30	0.08	0.96	1.19
REMAIN PYs	(0.25)	(0.05)	(1.25)	0.18	0.06	(0.41)	(0.21)	(1.85)	(1.23)	(0.30)	(0.53)	(0.55)	0.07	0.23	(0.19)	(1.11)	(0.60)	(1.44)
% EXPND: BUDGET PYs	139	107	281	65	76	184	124	281	374	230	204	194	88	10	163	0	163	221

8/5/92 - APR - JUN 92 QTR RPT

Table III-2B

SUMMARY OF SOUTH BAY MULTI-SITE COOPERATIVE AGREEMENT (MSCA – PHASE II) TOTAL EXPENDITURES
AS OF END OF THE QUARTER APRIL – JUNE 1992
(expenditures on State accounting reports as of 06/30/92 with contracts & equipment expenditures estimated)

TASK TITLE/SITE	RAYTHEON	SIEMENS	IGNETICS	SOLVENT	SPECTRA	SYNERTE	TELEDYNE	FEI/TRW	VW&R	WEST'HOU	RP/ZANDOZ	HEXCEL	NI HECK	NPL SITE TOTALS
PCA / TASK CODE	72102	72110	72114	72118	72120	72124	72128	72125	72137	72141	72148	72270	72272	72XXX
EPA NPL SITE #	93	J2	91	J9	J1	K3	95	K4	96	97	98	J1		
SALARY & WAGES:	4,691	24,216	32,707	53,293	31,912	27,142	34,100	27,957	46,645	10,402	95,421	53,292	1916	1,083,617
SUB-TOTAL SAL & WGS	4,691	24,216	32,707	53,293	31,912	27,142	34,100	27,957	46,645	10,402	95,421	53,292	1,916	1,083,617
SALARY BUDGET	36,421	21,766	32,586	36,255	35,167	38,475	34,180	34,977	40,933	13,275	45,880	57,380	10,724	1,180,761
REMAINING BUDGET	31,729	(2,450)	(121)	(17,038)	3,255	11,333	80	7,020	(5,712)	2,873	(49,541)	4,088	8,808	97,144
BENEFITS:	1,508	7,597	9,813	11,426	9,572	8,144	10,230	8,388	13,996	3,119	28,626	13,784	576	317,289
SUB-TOTAL BENEFITS	1,508	7,597	9,813	11,426	9,572	8,144	10,230	8,388	13,996	3,119	28,626	13,784	576	317,289
BENEFITS BUDGET	10,927	6,530	9,776	10,876	10,550	11,543	10,255	10,493	12,280	3,983	13,764	17,213	3217	354,227
REMAINING BUDGET	9,419	53,938	(37)	(550)	978	3,399	25	2,105	(1,716)	864	(14,862)	3,429	2,641	36,938
INDIRECT COSTS:														
EXP/OBLIG/ENCUM	11,053	75,259	94,123	110,032	90,691	72,320	97,476	90,335	149,595	20,283	208,117	108,535	3870	2,274,152
SUB-TOTAL INDIRECT	11,053	75,259	94,123	110,032	90,691	72,320	97,476	90,335	149,595	20,283	208,117	108,535	3,870	2,274,152
INDIRECT BUDGET	41,817	23,441	36,027	39,327	38,659	42,662	38,258	38,705	45,092	14,828	52,009	65,858	12,316	1,238,363
REMAINING BUDGET	30,764	(39,232)	(58,096)	(70,705)	(52,032)	(29,658)	(59,218)	(51,630)	(104,503)	(5,455)	(156,108)	(42,677)	8,446	(1,035,789)
CONSULTANTS:														
CSDHS – DATA VAL														57,294
BASELN PUB HEALTH														328,171
TECHNICAL ASSIST														170,263
PRP SEARCH														29,530
LABORATORY SVCS														25,830
IPA(S) INC SPECIAL EXPENSES	620	22,230	20,840	22,507	15,226	15,252	15,656	20,532	21,088	1,626	18,067	14,669	758	
SUB-TOTAL CONTRACT	620	22,230	20,840	22,507	15,226	15,252	15,656	20,532	21,088	1,626	18,067	14,669	758	611,088
CONTRACT BUDGET:	0	14,586	27,881	27,380	19,823	19,204	47,063	29,517	33,887	0	30,468	72,816	0	1,479,323
REMAINING BUDGET	(620)	(7,645)	7,041	4,873	4,597	3,952	31,407	8,985	12,799	(1,626)	12,401	58,147	(758)	868,235
EQUIPMENT:	0		399	399	399	399	399	399	399	0	0	0	0	7,971
EXPEND/OBLIG/ENCUM	0		399	399	399	399	399	399	399	0	0	0	0	7,971
SUB-TOTAL EQUIPMENT	0		399	399	399	399	399	399	399	0	0	0	0	7,971
EQUIPMENT BUDGET	334	793	777	1,106	883	783	839	788	780	334	134	200	200	26,100
REMAINING BUDGET	0		378	707	484	384	440	389	381	0	0	200	200	18,129
GRAND TOTAL EXP/ENC	17,872	129,302	157,882	197,656	147,800	123,257	157,861	147,611	231,723	35,430	350,231	190,280	7,120	4,294,117
GRAND TOTAL BUDGET	28,408	118,346	125,380	164,154	162,354	127,045	157,952	165,091	206,905	38,408	309,495	188,905	19,710	4,061,567
GRAND TOTAL REMAIN	10,536	(10,956)	(32,502)	(33,502)	14,554	3,788	91	17,480	(24,818)	2,978	(40,736)	(1,375)	12,590	(232,550)
% EXPND: BUDGET	63	109	126	120	91	97	100	89	112	92	113	101	0	106
PYs EXPENDED	0.34	0.54	0.66	1.30	0.61	0.64	0.97	0.75	1.21	0.27	2.91	1.29	0.1	31.35
PYs BUDGETED	0.95	0.70	0.94	1.08	1.01	1.04	0.99	1.01	1.21	0.40	1.21	0.97	0.36	33.91
REMAIN PYs	0.61	0.17	0.28	(0.21)	0.40	0.40	0.02	0.26	(0.00)	0.13	(1.70)	(0.32)	0.26	2.57
% EXPND: BUDGET PYs	36	76	70	120	60	62	98	74	100	68	240	133	28	92

8/5/92 – APR – JUN 92 QTR RPT

TASK E. 3. EPA COORDINATION

Task Description

This task includes the RWQCB staff tasks and contracts of a non-site specific nature necessary to support the MSCA. This subtask covers those meetings, conferences, telephone calls, and written correspondence between RWQCB and EPA, and RWQCB staff and the public and other agencies for coordination of NPL non-site-specific activities and data; RWQCB (and IPA) staff attendance at training and seminars to familiarize themselves with the EPA RI/FS process and SARA implementation; and RWQCB staff (and IPA) staff time keeping and other tasks necessary to meet the MSCA Special Conditions. Some of the non-site specific consultant contract preparation have also been partially charged here as they involved EPA coordination.

Products

Products for this task include meetings, conferences, training received, telephone calls, and written correspondence between the RWQCB and EPA staff, RWQCB staff and RP/PRP, RWQCB staff and the public and agencies, regarding NPL non-site-specific activities to include follow-up to previously submitted completed work (e. g. PAs, reports, etc.).

State-Budgeted Activities

The required level of consultant contracting, time keeping and communications between the RWQCB, EPA staff, the RP/PRP, public and public agencies are for purposes directly related to the MSCA and are thus not included in State-funded activities. The familiarization with the RI/FS process and the NCP referred to in this subtask relates only to the MSCA requirements. Activities under this task are necessitated by the MSCA.

Cost

A detailed breakdown of expenditures for this task is presented in Table III-E3. Previous expenditure over-runs were due to necessary work on contract procurement activities. Redirection to cover this Task over-run may be necessary and will be covered jointly with Project Management redirection in a separate transmittal.

Additionally, staff guidance has been amended to attempt to apply all future time charges for application to a specific site where reasonable, e.g. when a staff person is only working on several sites and EPA coordination covers activities applicable to all the sites, staff will distribute their time appropriately among the sites they are working on to simplify site cost recovery. As of the January 1992 Workplan, this task has been eliminated so that all staff costs are directly applied to the sites they are working on. The costs shown already accommodate the distribution of this tasks costs to the site specific accounts. See the Table of page III-5 for overall grant budget status.

TABLE III – E3

COST ESTIMATE FOR TASK E3 – EPA COORDINATION
ESTIMATED EXPENDITURES VS. APPROVED BUDGET AND STAFF – PHASE IIA GRANT 13 APRIL 88 – 31 MAR 1992

	APPROVED BUDGET APRIL 1988 – SEP 1991		ESTIMATED EXPENSES THIS QUARTER		TOTAL EXPENDITURES AS OF MAR 31 1992		ESTIMATED REMAINING CURRENT GRANT	
Personnel	Est. Staff Years	Est. Cost	Est. Staff Years	Est. Cost	Staff Years	Expended	Staff Years	Funds
Supervising WRCE	0.00							
Senior WRCE/Geologist	0.55							
Assoc. WRCE/Geologist	1.60							
Staff Services Analyst	0.35							
Information Services Technician	0.00							
Office Asst II	0.46							
Temporary Help	0.48							
TOTAL	3.44 SY	$103,322	0.12 SY	$3,582	2.04 SY	$59,755	1.40 SY	$43,567
NET SALARY								
FRINGE BENEFITS								
Calculated at 30 percent of personnel costs		$31,387		$1,074		$18,228		$13,159
INDIRECT COSTS								
		$105,324		($22,541)		($5,752)		$111,076
EQUIPMENT (See Workplan for details)		$0		$0		$0		$0
CONTRACTS								
IPA		$21,742		$0		$5,407		$16,335
SEE DETAIL SHEET ATTACHED — n/a		$0		$0		$0		$0
Total Contracts:		$21,742		$0		$5,407		$16,335
TOTAL ESTIMATED RWQCB STAFFING AND COST	3.44 SY	$261,774	0.12 SY	($17,885)	2.04 SY	$77,638	1.40 SY	$184,136
			3%	-7%	59%	30%	41%	70%

8/23/92: APR – JUNE 92 QTR RPT